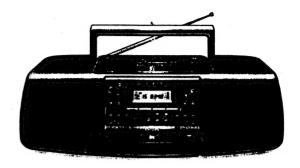
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Service Service Service



# Service Manual



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Service Manual Tape Transport RDR11

CLASS 1 LASER PRODUCT

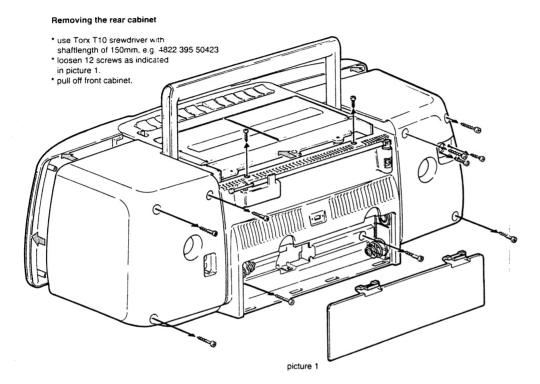
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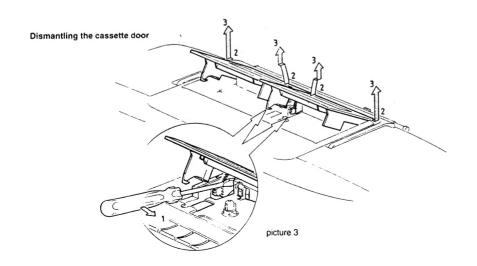
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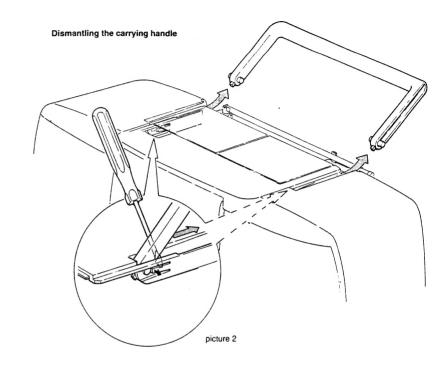


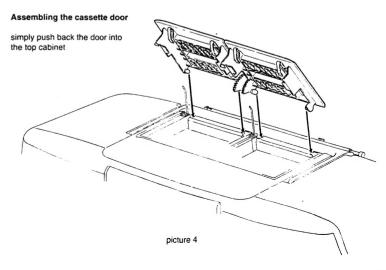


### DISMANTLING INSTRUCTIONS









### Dismantling hints CD Short Loader

### Dismantling the tray

- a) Press open/close button to open the tray. If the tray doesn't work, use a small screwdriver as shown in Fig.1 point 1 to move the tray outside. After the first centimetre it is possible to pull the tray out by hand.
- b) Release two snaps and remove tray.

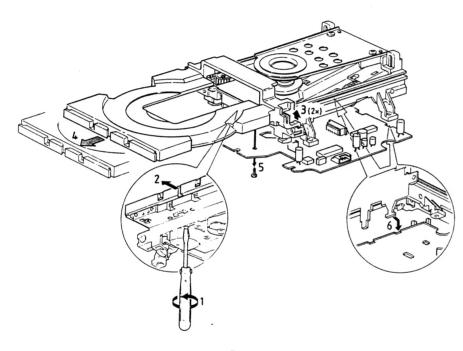
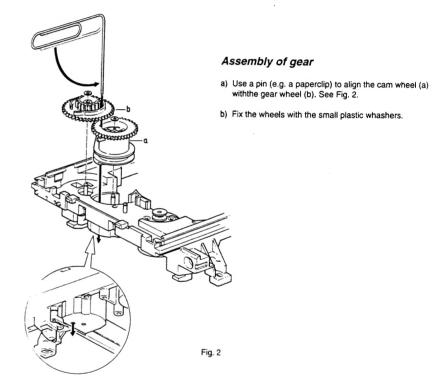
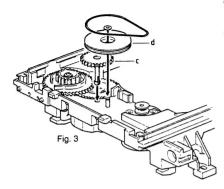
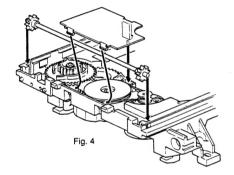


Fig. 1

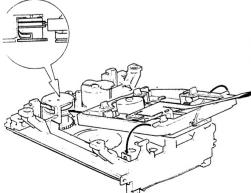




- c) Mount idle wheel 2 (c) and idle wheel 1 (d) in any position. See Fig. 3.
- d) Fix the idle wheel 1 (d) with the small plastic whasher.
- e) Mount the driving belt.



- Mount the pinion guiding assy and the cover as shown in Fig. 4.
- g) Turn the gear wheel (b) counter clockwise to endposition.



h) Mount the CD Mechanism as shown in Fig. 5.

Mount the tray (Align the tray to the chassis and push it inside).

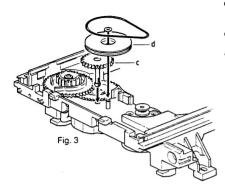
### Check if tray mechanism works correctly!

 Turn the gear wheel (b) clockwise to its endposition (Use a small screwdriver as shown in Fig. 1 point 1).

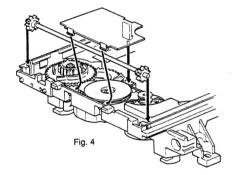
The tray has to move to inner position first and then the CD mechanism has to move to its upper position.

2) Turn the gear wheel (b) counter clockwise to its endposition.

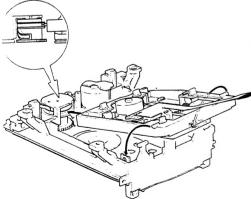
The CD Mechanism has to move to its lower position first and then the tray has to move outside.



- c) Mount idle wheel 2 (c) and idle wheel 1 (d) in any position. See Fig. 3.
- d) Fix the idle wheel 1 (d) with the small plastic whasher.
- e) Mount the driving belt.



- f) Mount the pinion guiding assy and the cover as shown in Fig. 4.
- g) Turn the gear wheel (b) counter clockwise to endposition.



h) Mount the CD Mechanism as shown in Fig. 5.

Mount the tray (Align the tray to the chassis and push it inside).

### Check if tray mechanism works correctly!

 Turn the gear wheel (b) clockwise to its endposition (Use a small screwdriver as shown in Fig. 1 point 1).

The tray has to move to inner position first and then the CD mechanism has to move to its upper position.

Turn the gear wheel (b) counter clockwise to its endposition.

The CD Mechanism has to move to its lower position first and then the tray has to move outside.

Repair position CD MODULE

### REPAIR POSITIONS

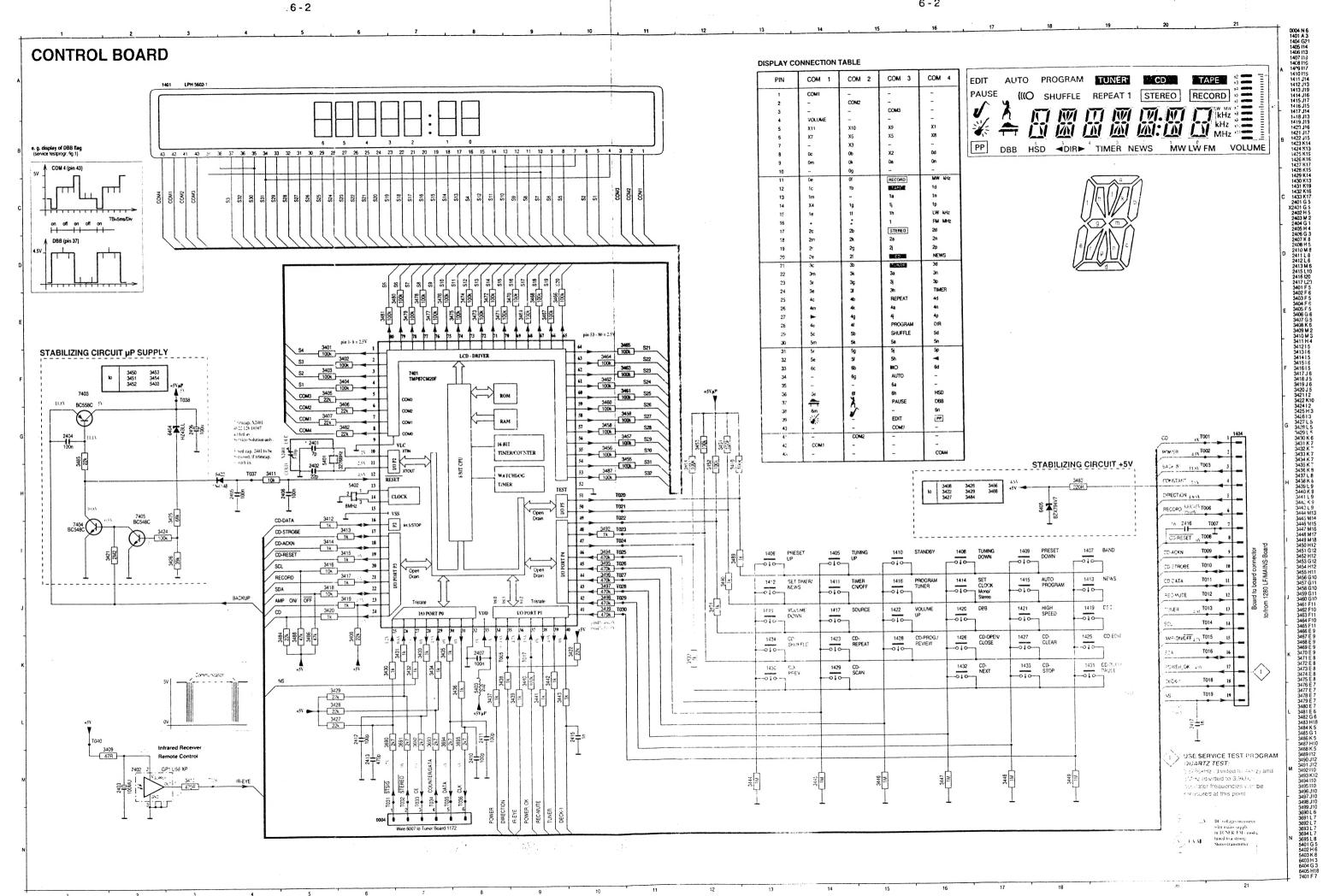
# GENERAL repair position for: TUNER BOARD LF-MAINS BOARD CONTROL BOARD TUNER BOARD TUNER BOARD TO HIGHER TO HOOLE

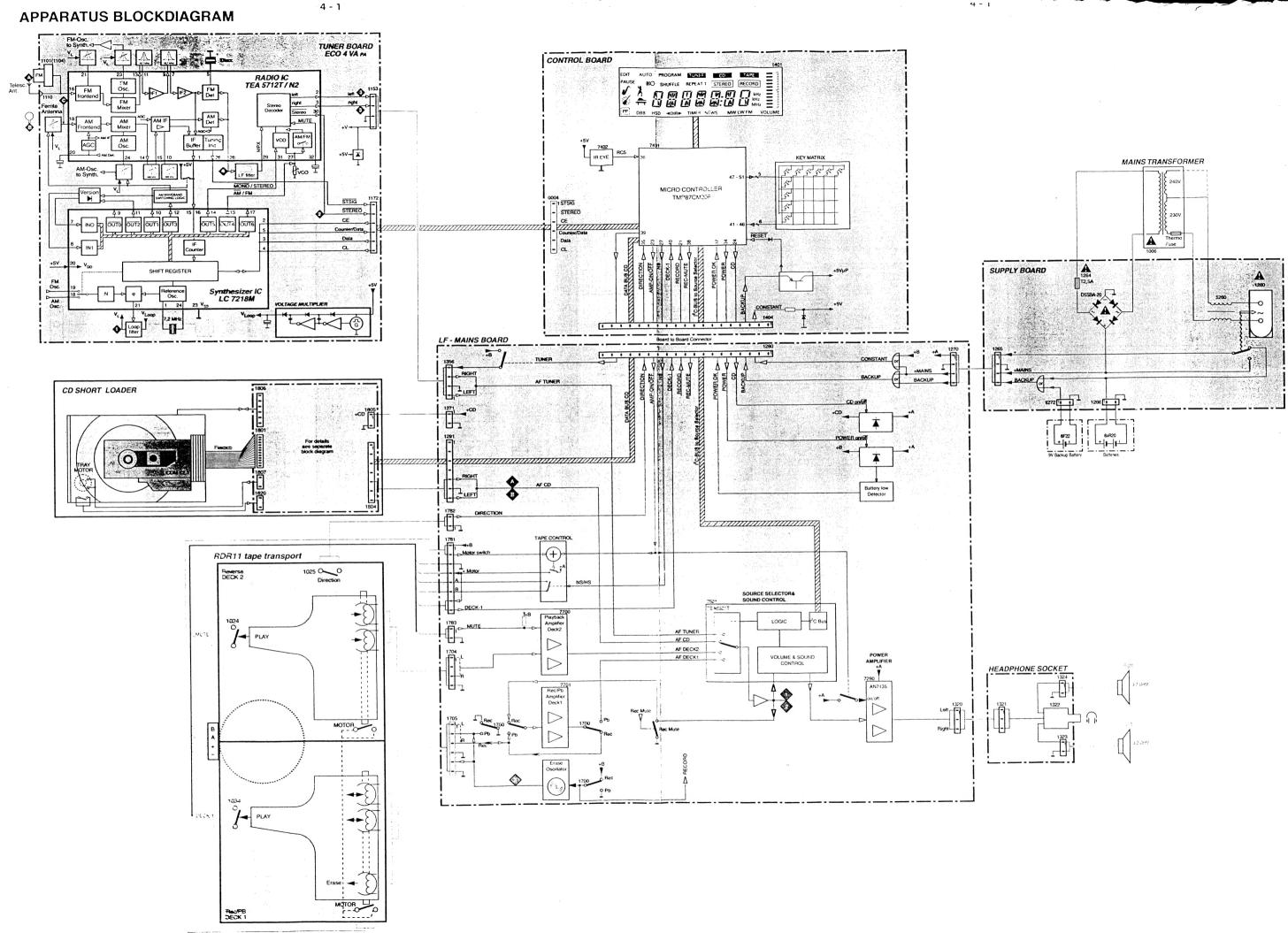
### Put CD module aside if necessary.

To get full access to Control Board respectively to the component side of LF-Mains Board, remove top cabinet with tape transports → loosen 3 screws of LF-Mains Board and 2 screws top cabinet-front cabinet first.

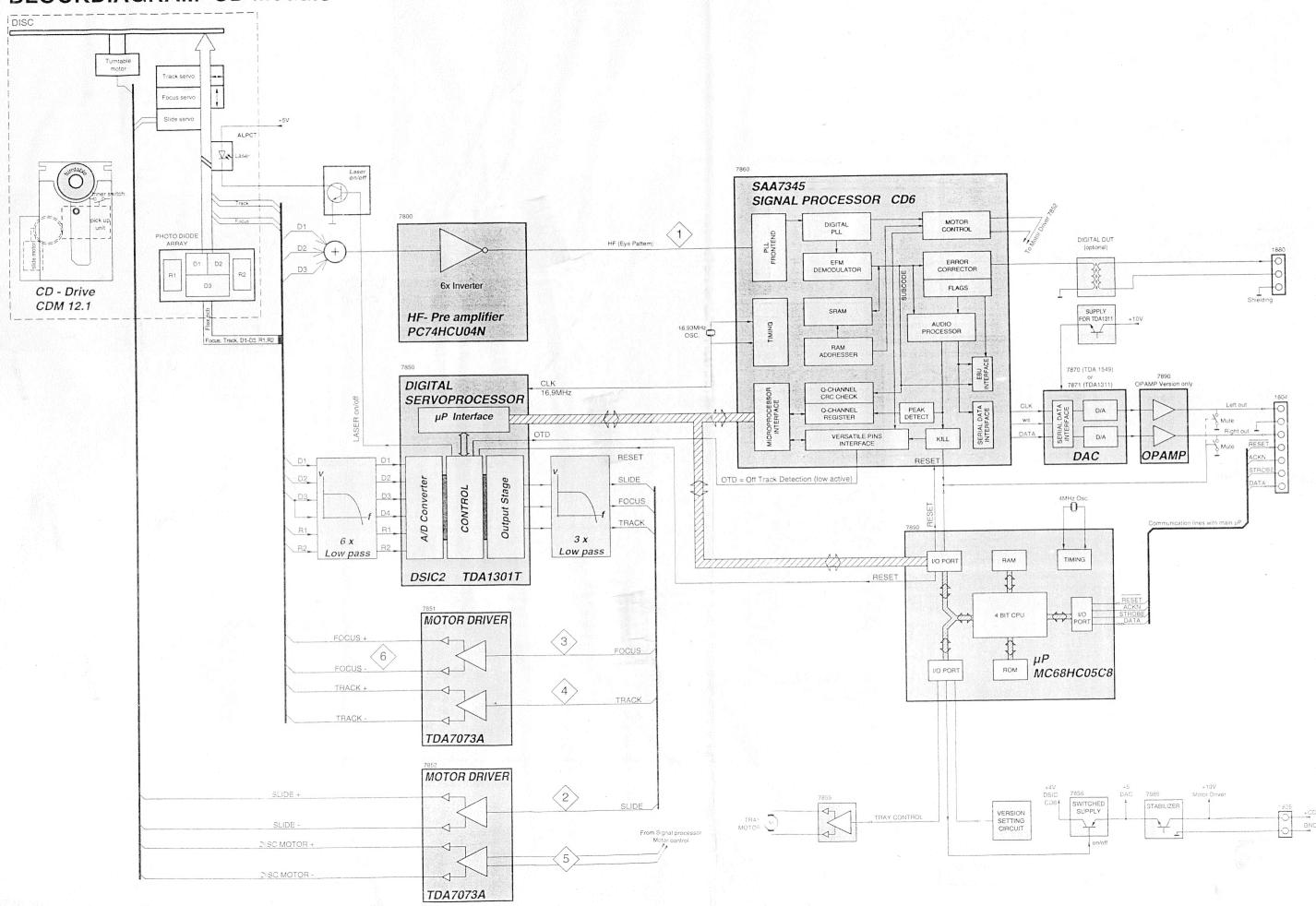
Then pull off top part while bending LF-Mains Board backwards (cooing fin!)







# **BLOCKDIAGRAM CD Module**

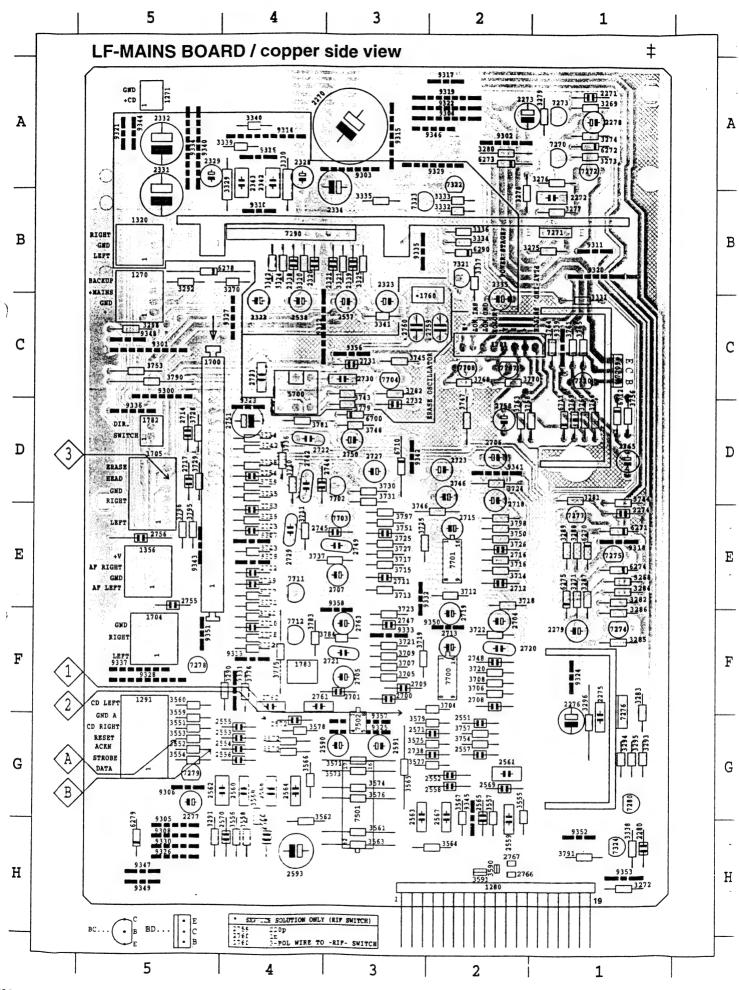


### **DESCRIPTION OF CONTROL- AND DATA LINES**

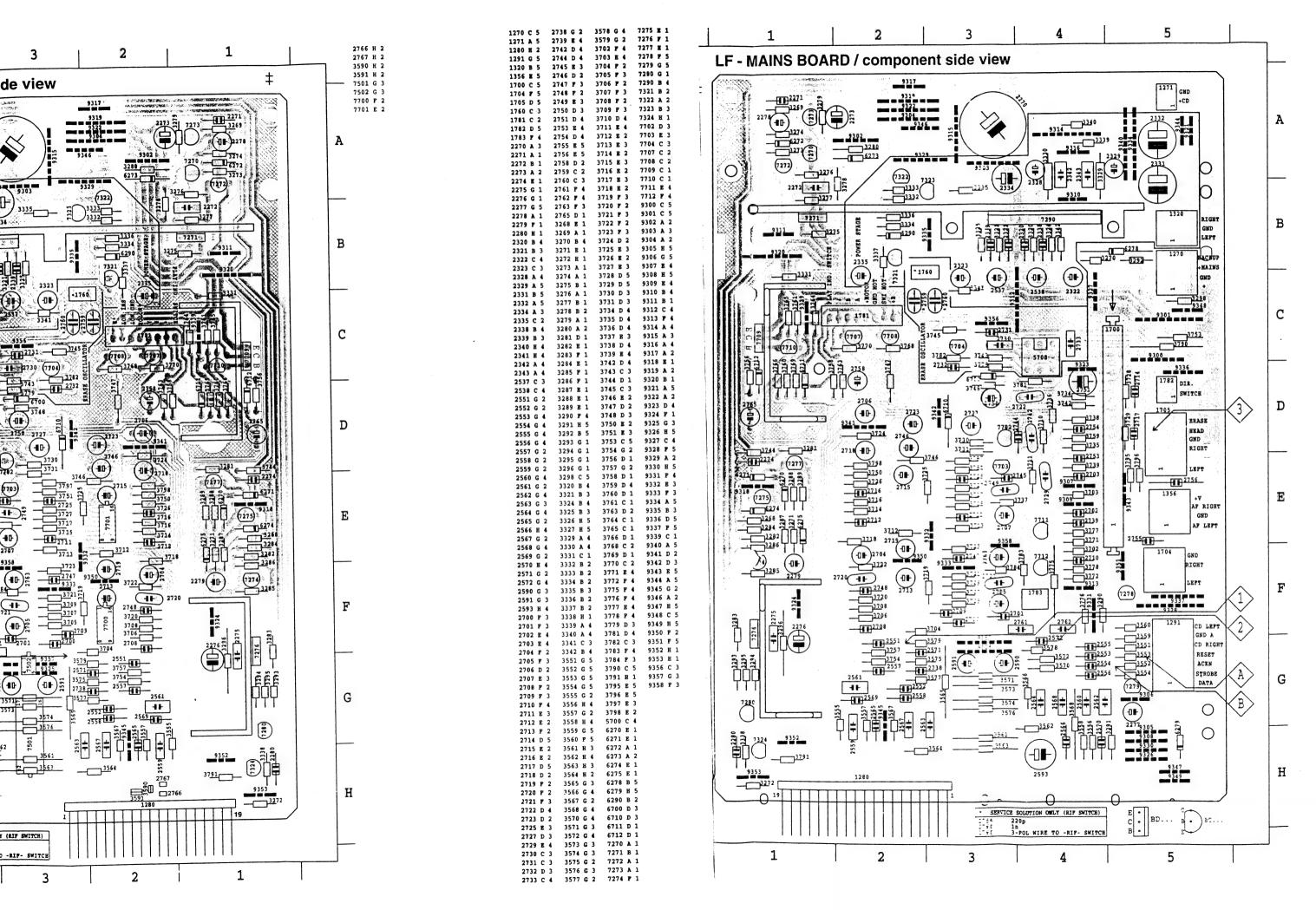
### to/from LF/Mains-board

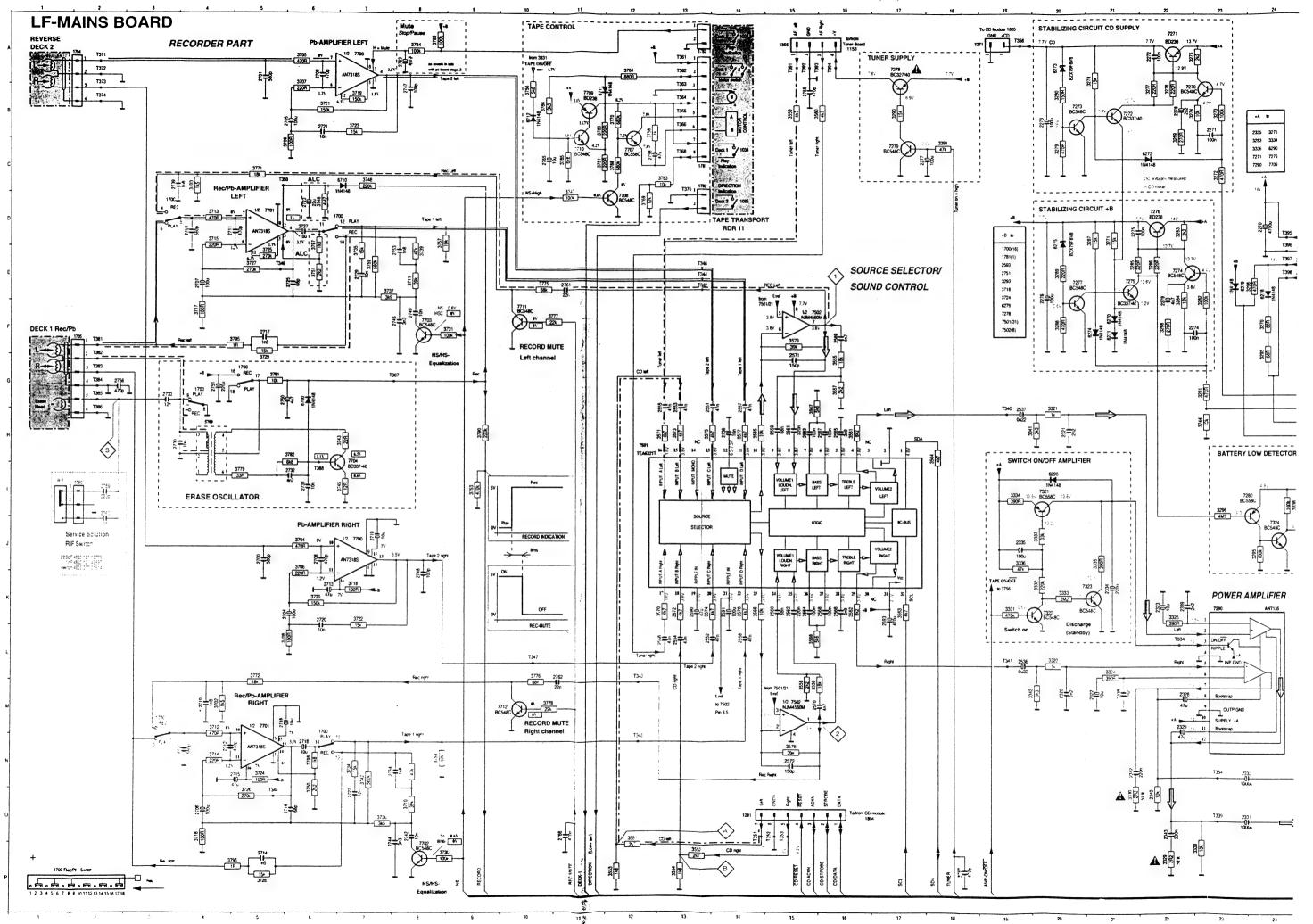
to/from LF/Mains	-board		
SIGNAL NAME	s	IGNAL FLOW	EXPLANATION
AMP-ON/OFF	$\mu P \rightarrow$	power amp. & tape control	High level switches power amp. and tape control on.
BACKUP	supply →	stabilizing circuit µP supply	Supply voltage for the $\mu P$ , delivered either from mains, batteries or backup-battery.
CD	$\mu P \rightarrow$	stabilizing circuit CD supply	High level switches CD module on.
CD-RESET	$\mu P \to$	CD module	Low level resets the $\mu P$ of the CD electronic.
CD-ACKN	$\mu P  \leftrightarrow $	CD module	Confirms data read which were sent via the data line of the serial Data Strobe Acknowledge Bus.
CD-STROBE	µP ↔	CD module	Indicates available data to be read on the data line of the serial Data Strobe Acknowledge Bus.
CD-DATA	µP ↔	CD module	Data line of the serial Data Strobe Acknowledge Bus main $\mu P \leftrightarrow CD \; \mu P.$
CONSTANT	supply →	IR EYE	Continuous supply for the IR EYE from mains enables the set to be waked up with remote control or switched supply +B from batteries the µP detects via the IR EYE pin low level in <i>STANDBY</i> and switches to slow mode in order to save batteries.
DECK-1	tape trans	p. deck 1 $\rightarrow \mu P$	Indicates that deck 1 is in PLAY position.
DIRECTION	tape trans	p. deck 2 → µP	Indicates the actual direction of the reverse deck 2.
NS .	μP →	tape control	Switches the motor speed. High level = normal speed
POWER	µP →	stabilizing circuit +B	High level switches stabilizing circuit <b>+B</b> and consequently the set on.
POWER-OK	battery lov	v detector → μP	Indicates if power supply voltage $+A$ is high enough to enable proper working of stabilizing circuit $+B$ . In case of exhausted batteries this control line is switched to low level. The $\mu P$ recognizes this and switches the set to <i>STANDBY</i> .
RECORD	Rec/Pb-s	witch → µP	High level indicates that recorder electronic is switched to REC mode.
REC-MUTE	µP →	recorder electronic	High level mutes the signal to be recorded until 8ms after the REC mode was indicated to the $\mu P$ . This in order to avoid "howling" while the motor accelerates to nominal speed.
TUNER	$\mu P  \rightarrow $	tuner supply	High level switches the tuner supply and consequently the tuner on.
SDA, SCL	$\mu P \; \leftrightarrow \;$	source selector IC	I <sup>2</sup> C bus interface.
to/from Tuner bo	oard		
CE	$\mu P \to$	synthesizer IC	Chip enable for dataline
CLK	$\mu P \to$	synthesizer IC	Clock-frequency for data transfer.
COUNTER/DATA	synthesiz	erIC → µP	Data line synthesizer IC to μP.
DATA	$\mu P \to$	synthesizer IC	Data line $\mu P$ to synthesizer IC.
STEREO	radio IC	→ μP	Low level indicates a stereo transmitter.
STSIG	radio IC	→ μР	Low level indicates a strong transmitter found (STop SIGnal) during search mode.

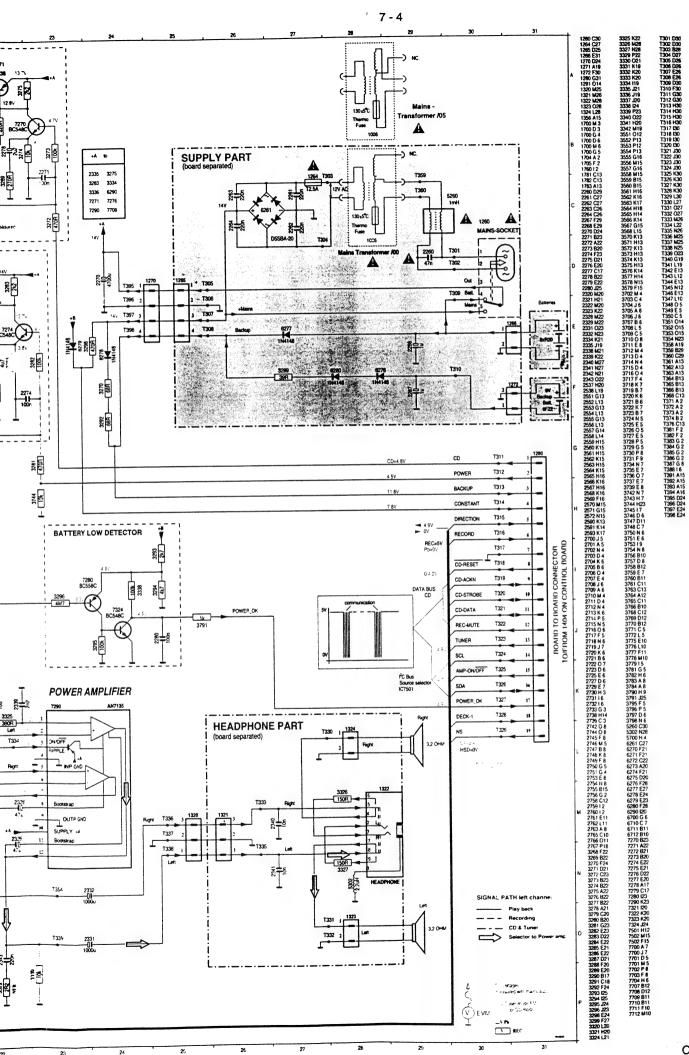
## LF - MAINS BOARD / layout stage .5



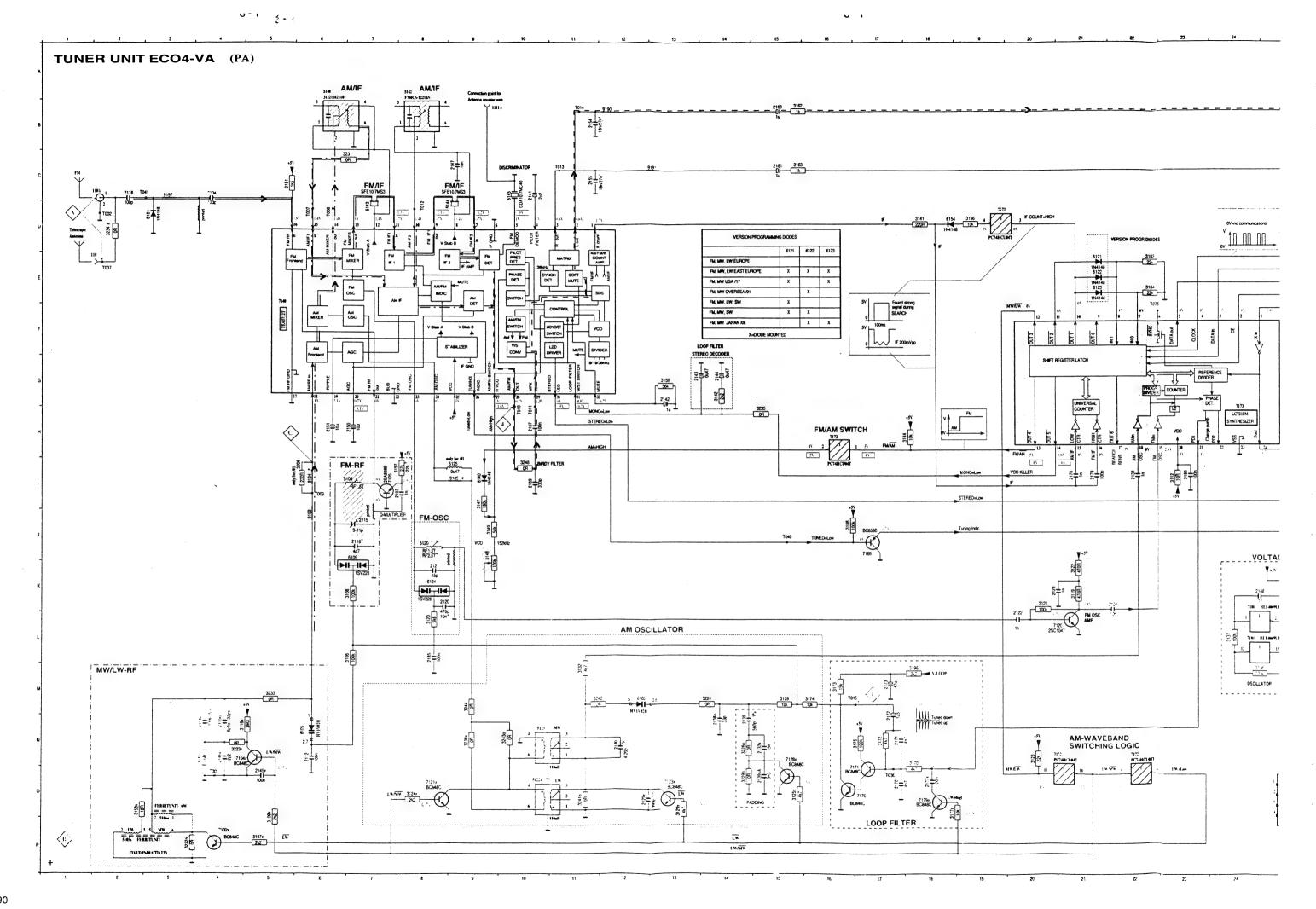
S 48 709

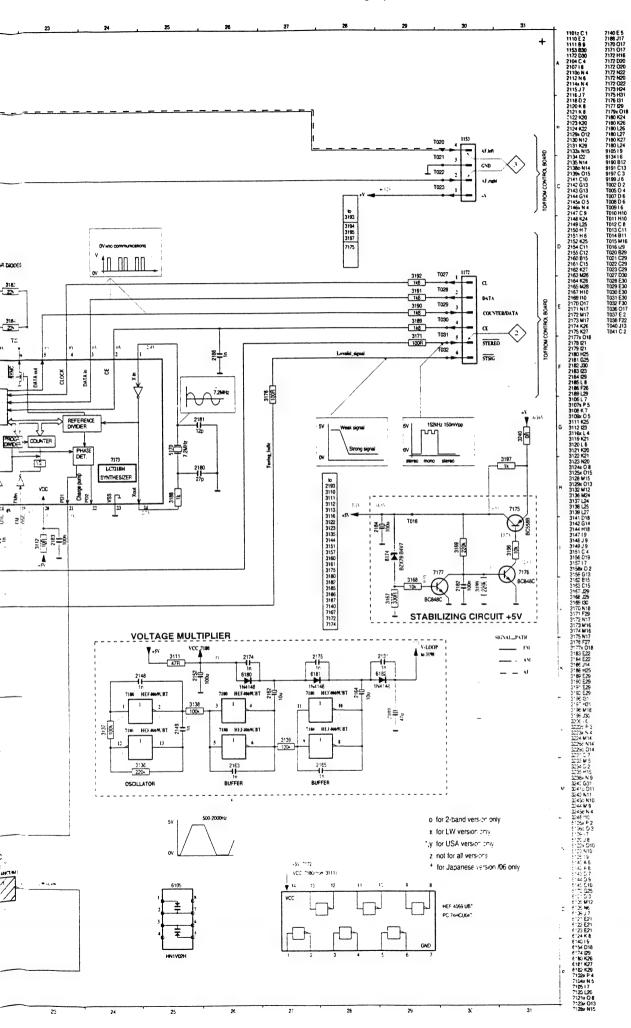




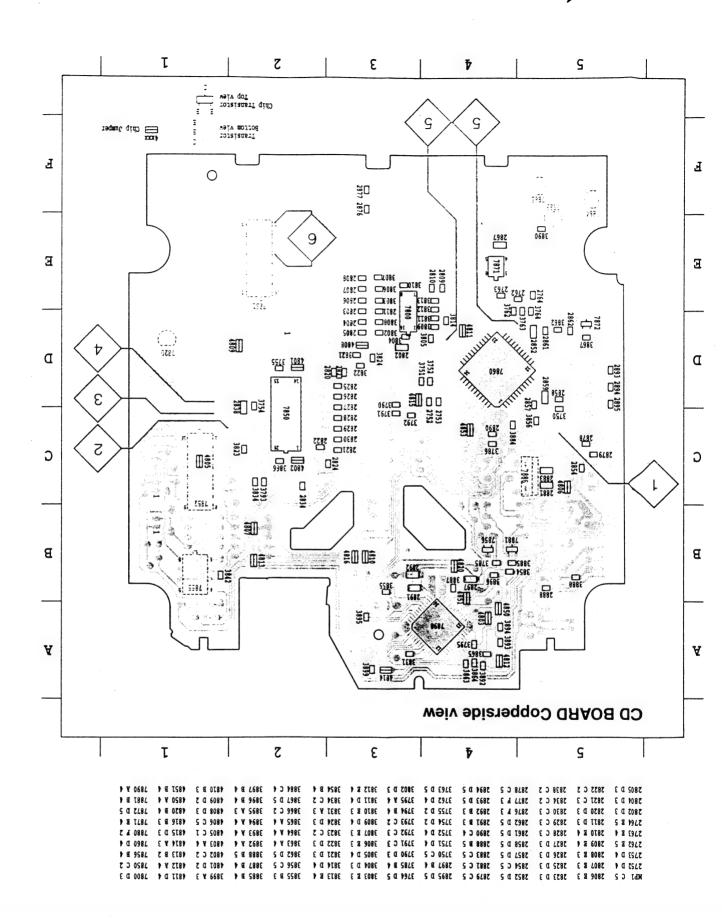


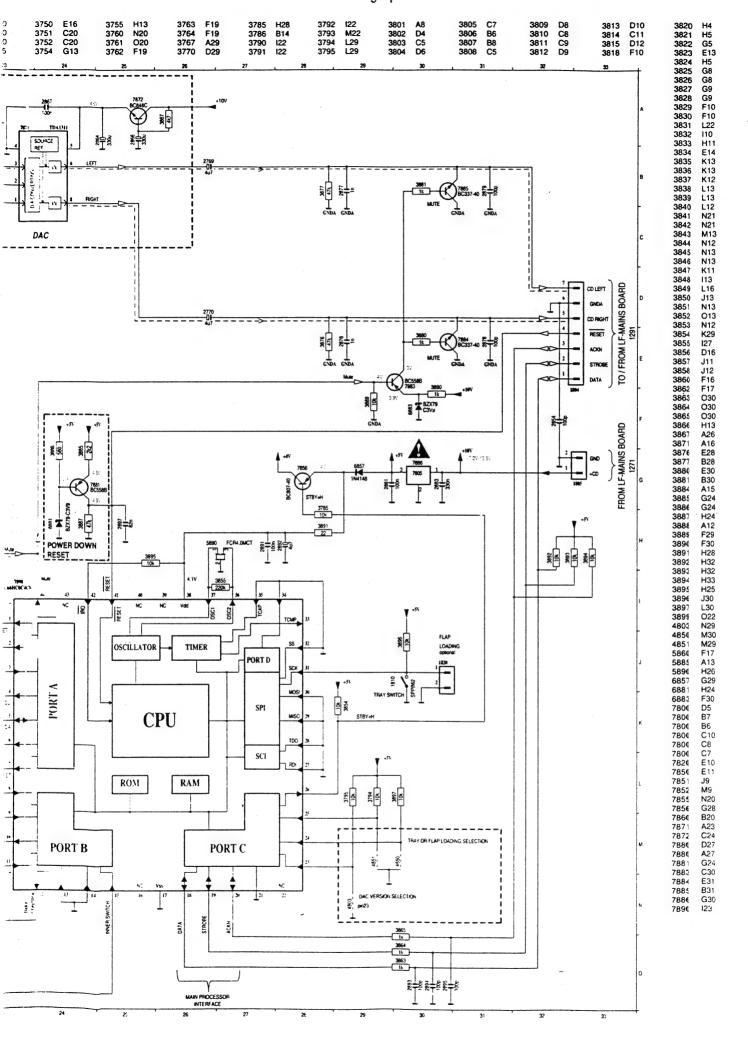
CS 48 689

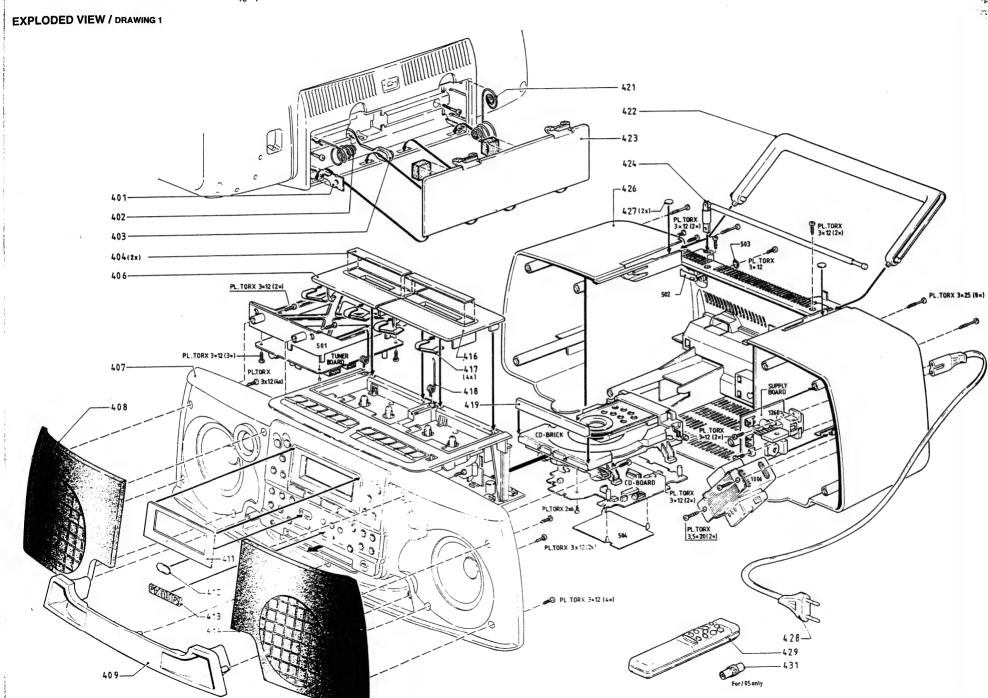


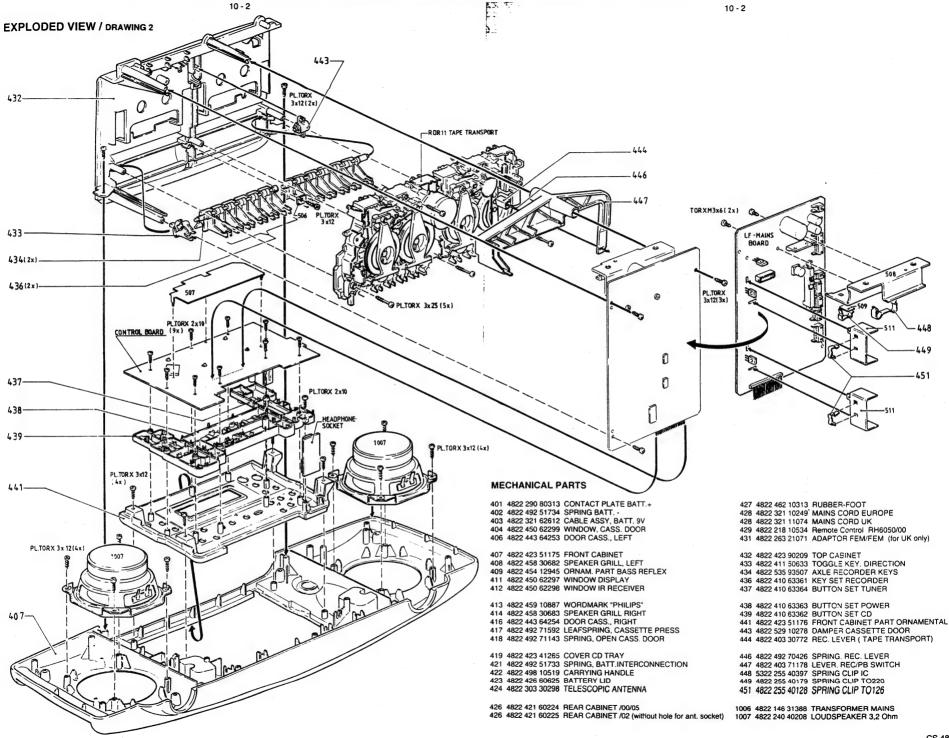


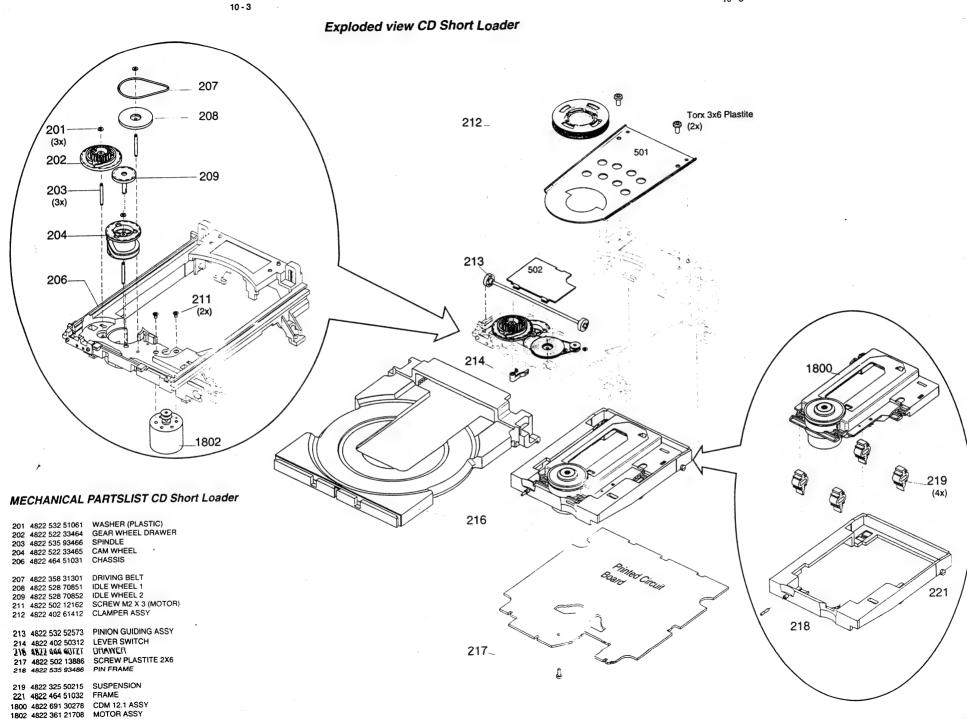
### CD Board layout stage .8











4822 502 30735 SCREW 3 X 6 PLASTITE

CS 48 696

### **ELECTRICAL PARTSLIST** CONTROL BOARD

	ARTSLIST										
							3467	4822 116 52234	100k	5%	0,5W
ONTROL BOARD								4822 116 52234	100k	5%	0,5W
		RESIST	rone				3469	4822 116 52234	100k	5%	0,5W
SCELLANEOUS		HESIST	OHS				 3470	4822 116 52234	100k	5%	0,5W
					501	0.504	 3471	4822 116 52234	100k	5%	0,5W
401 4822 130 91391			4822 116 52257	22k	5%	0,5W 0,5W					
405 4822 276 13355	TACT SWITCH 12V/50mA		4822 116 52257	22k	5%	0,5W		4822 116 52234	100k	5%	0,5W
406 4822 276 13355	TACT SWITCH 12V/50mA		4822 116 52257	22k	5%	0,5W	3473	4822 116 52234	100k	5%	0,5W
407 4822 276 13355	TACT SWITCH 12V/50mA		4822 116 52195	47R	5%			4822 116 52234	100k	5%	0,5W
408 4822 276 13355	TACT SWITCH 12V/50mA	3410	4822 116 52224	470R	5%	0,5W	3475	4822 116 52234	100k	5%	0.5W
				401-	E0/	0.5W	3476	4822 116 52234	100k	5%	0,5W
409 4822 276 13355	TACT SWITCH 12V/50mA		4822 116 52233	10k	5% 5%	0,5W 0,2W					
10 4822 276 13355	TACT SWITCH 12V/50mA		4822 050 11002	1k		0,2W		4822 116 52234	100k	5%	0,5W
111 4822 276 13355	TACT SWITCH 12V/50mA		4822 050 11002	1k	5%			4822 116 52234	100k	5%	0.5W
12 4822 276 13355	TACT SWITCH 12V/50mA		4822 050 11002	1k	5%	0,2W		4822 116 52234	100k	5%	0,5W
13 4822 276 13355	TACT SWITCH 12V/50mA	3415	4822 050 11002	1k	5%	0,2W	3480	4822 116 52234	100k	5%	0,5W
			1000 110 50000	401.	E0/	0,5W	3481	4822 116 52234	100k	5%	0,5W
14 4822 276 13355	TACT SWITCH 12V/50mA		4822 116 52233	10k	5%						
15 4822 276 13355	TACT SWITCH 12V/50mA		4822 050 11002	1k	5%	0,2W	3482	4822 116 52257	22k	5%	0,5W
16 4822 276 13355	TACT SWITCH 12V/50mA		4822 116 52233	10k	5%	0,5W	3483	4822 116 52215	220R	5%	0,16W
17 4822 276 13355	TACT SWITCH 12V/50mA		4822 050 11002	1k	5%	0,2W	3484	4822 116 52257	22k	5%	0,5W
18 4822 276 13355	TACT SWITCH 12V/50mA	3420	4822 050 11002	1k	5%	0,2W		4822 116 52257	22k	5%	0,5W
								4822 116 52284	47k	5%	0,5W
19 4822 276 13355	TACT SWITCH 12V/50mA		4822 116 81682	2M2	5%	0,5W					
20 4822 276 13355	TACT SWITCH 12V/50mA		4822 116 52257	22k	5%	0,5W	3487	4822 116 52234	100k	5%	0,5W
1 4822 276 13355	TACT SWITCH 12V/50mA		4822 116 52234	100k	5%	0,5W		4822 116 52284	47k	5%	0,5W
2 4822 276 13355	TACT SWITCH 12V/50mA		4822 116 52297	68k	5%	0,5W		4822 050 11002	1k	5%	0,2W
3 4822 276 13355	TACT SWITCH 12V/50mA	3426	4822 116 52277	39k	5%	0,5W		4822 050 11002	1k	5%	0,2W
								4822 050 11002	1k	5%	0,2W
24 4822 276 13355	TACT SWITCH 12V/50mA	3427	4822 116 52257	22k	5%	0,5W	J-13 1		***		•
5 4822 276 13355	TACT SWITCH 12V/50mA	3428	4822 116 52257	22k	5%	0,5W	3492	4822 050 11002	1k	5%	0,2W
6 4822 276 13355	TACT SWITCH 12V/50mA	3429	4822 116 52257	22k	5%	0,5W		4822 050 11002	1k	5%	0,2W
7 4822 276 13355	TACT SWITCH 12V/50mA	3430	4822 050 11002	1k	5%	0,2W		4822 116 52285	470k	5%	0,5W
8 4822 276 13355	TACT SWITCH 12V/50mA	3431	4822 050 11002	1k	5%	0,2W		4822 116 52285	470k	5%	0,5W
								4822 116 52285	470k	5%	0,5W
9 4822 276 13355	TACT SWITCH 12V/50mA	3432	4822 050 11002	1k	5%	0,2W	3490	TUCE 110 36603	7100	J /4	2,211
0 4822 276 13355	TACT SWITCH 12V/50mA		4822 050 11002	1k	5%	0,2W	2407	4822 116 52285	470k	5%	0,5W
1 4822 276 13355	TACT SWITCH 12V/50mA	3434	4822 050 11002	1k	5%	0,2W			470k	5%	0.5W
2 4822 276 13355	TACT SWITCH 12V/50mA	3435	4822 050 11002	1k	5%	0,2W		4822 116 52285	470k	5%	0,5W
3 4822 276 13355	TACT SWITCH 12V/50mA		4822 050 11002	1k	5%	0,2W		4822 116 52285	2k7	5%	0,5W
30 4022 270 10000	1701 01111011 1211001111	0.00						4822 116 52263	2k7	5%	0,5W
		3437	4822 050 11002	1k	5%	0,2W	3691	4822 116 52263	287	3 /6	0,500
DES			4822 050 11002	1k	5%	0,2W		1000 110 50060	267	5%	0,5W
<i>/</i> E3			4822 050 11002	1k	5%	0,2W		4822 116 52263	2k7	5%	0,5W
03 4822 130 30621	1N4148		4822 116 52234	100k	5%	0,5W		4822 116 52263	2k7		0,5W
4822 130 30021			4822 050 11002	1k	5%	0,2W		4822 116 52263	2k7	5%	
15 4822 130 34174		0441	1000 000 11000	***		-,	3695	4822 116 52263	2k7	5%	0,5W
3 4022 130 34174	B2X13-14V1	3442	4822 050 11002	1k	5%	0,2W					
			4822 050 11002	1k	5%	0,2W					
NSISTORS			4822 116 52235	1M	5%	0,5W	CAPAC	TIORS			
101010N3			4822 116 52235	1M	5%	0,5W		1000 100 1000		0.50	EOV.
2 5222 122 5222	BCEE8C		4822 116 52235	. 1M	5%	0,5W		4822 126 13324	7pF	0,5%	
3 5322 130 60068	BC558C	3440	-02E 110 JEEUS	. 1141	570	0,511		5322 122 32143	22pF	5%	
4822 130 44196	BC548C	2447	4822 116 52235	1M	5%	0,5W	2403	4822 124 41643	100µF	20%	16\
5 4822 130 44196	BC548C		4822 116 52235	1M	5%	0,5W			455 5		60)
			7022 110 32233			0,5W		5322 121 42386	100nF	5%	
			4000 116 50005	484		0,344			100-E	10%	16√
		3449	4822 116 52235	1M	5%	O EW		4822 126 13325	100nF		
GRATED CIRCUITS		3449 3450	4822 116 52234	100k	5%	0,5W	2406	4822 124 42446	100µF	20%	
		3449 3450				0,5W 0,5W	2406			20% 10%	
1 4822 209 33663	TMP87CM70AF-AZ8640.1	3449 3450 3451	4822 116 52234 4822 116 52234	100k 100k	5% 5%	0,5W	2406 2407	4822 124 42446	100µF		161
1 4822 209 33663		3449 3450 3451 3452	4822 116 52234 4822 116 52234 4822 116 52234	100k 100k 100k	5% 5% 5%	0,5W 0,5W	2406 2407	4822 124 42446 4822 126 13325	100µF 100nF	10%	161
1 4822 209 33663	TMP87CM70AF-AZ8640.1	3449 3450 3451 3452 3453	4822 116 52234 4822 116 52234 4822 116 52234 4822 116 52234	100k 100k 100k 100k	5% 5% 5% 5%	0,5W 0,5W 0,5W	2406 2407 2408	4822 124 42446 4822 126 13325	100µF 100nF	10%	16\
1 4822 209 33663	TMP87CM70AF-AZ8640.1	3449 3450 3451 3452 3453 3454	4822 116 52234 4822 116 52234 4822 116 52234 4822 116 52234 4822 116 52234	100k 100k 100k 100k 100k	5% 5% 5% 5% 5%	0,5W 0,5W 0,5W 0,5W	2406 2407 2408 2410	4822 124 42446 4822 126 13325 4822 126 12882	100µF 100nF 100nF	10% 50V	16V 50V
1 4822 209 33663	TMP87CM70AF-AZ8640.1	3449 3450 3451 3452 3453 3454 3455	4822 116 52234 4822 116 52234 4822 116 52234 4822 116 52234 4822 116 52234 4822 116 52234	100k 100k 100k 100k 100k 100k	5% 5% 5% 5% 5% 5%	0,5W 0,5W 0,5W 0,5W 0,5W	2406 2407 2408 2410 2411	4822 124 42446 4822 126 13325 4822 126 12882 4822 122 33195	100µF 100nF 100nF	10% 50V 10%	16\ 50\ 50\
11 4822 209 33663 12 4822 214 52009	TMP87CM70AF-AZ8640.1	3449 3450 3451 3452 3453 3454 3455	4822 116 52234 4822 116 52234 4822 116 52234 4822 116 52234 4822 116 52234	100k 100k 100k 100k 100k	5% 5% 5% 5% 5%	0,5W 0,5W 0,5W 0,5W	2406 2407 2408 2410 2411 2412	4822 124 42446 4822 126 13325 4822 126 12882 4822 122 33195 4822 122 33195 4822 122 33195	100µF 100nF 100nF 100pF 100pF	10% 50V 10% 10%	50V 50V 50V
11 4822 209 33663 12 4822 214 52009	TMP87CM70AF-AZ8640.1	3449 3450 3451 3452 3453 3454 3455 3456	4822 116 52234 4822 116 52234 4822 116 52234 4822 116 52234 4822 116 52234 4822 116 52234 4822 116 52234	100k 100k 100k 100k 100k 100k 100k	5% 5% 5% 5% 5% 5%	0,5W 0,5W 0,5W 0,5W 0,5W	2406 2407 2408 2410 2411 2412 2413	4822 124 42446 4822 126 13325 4822 126 12882 4822 122 33195 4822 122 33195 4822 122 33195 4822 122 33519	100µF 100nF 100nF 100pF 100pF 100pF 470pF	10% 50V 10% 10%	50V 50V 50V 50V
01 4822 209 33663 02 4822 214 52009 01 4822 242 81016	TMP87CM70AF-AZ8640.1 INFRARED RECEIVER, GP1U58XP X-TAL 32,768kHz	3449 3450 3451 3452 3453 3454 3455 3456	4822 116 52234 4822 116 52234	100k 100k 100k 100k 100k 100k 100k	5% 5% 5% 5% 5% 5% 5%	0,5W 0,5W 0,5W 0,5W 0,5W 0,5W	2406 2407 2408 2410 2411 2412 2413	4822 124 42446 4822 126 13325 4822 126 12882 4822 122 33195 4822 122 33195 4822 122 33195	100µF 100nF 100nF 100pF 100pF 100pF	10% 50V 10% 10% 10%	50V 50V 50V 50V
01 4822 209 33663 02 4822 214 52009 01 4822 242 81016	TMP87CM70AF-AZ8640.1 INFRARED RECEIVER, GP1U58XP	3449 3450 3451 3452 3453 3454 3455 3456 3457 3458	4822 116 52234 4822 116 52234	100k 100k 100k 100k 100k 100k 100k 100k	5% 5% 5% 5% 5% 5% 5%	0,5W 0,5W 0,5W 0,5W 0,5W 0,5W	2406 2407 2408 2410 2411 2412 2413 2415	4822 124 42446 4822 126 13325 4822 126 12882 4822 122 33195 4822 122 33195 4822 122 33195 4822 122 33197	100µF 100nF 100nF 100pF 100pF 100pF 470pF 1nF	10% 50V 10% 10% 10% 10%	50V 50V 50V 50V 50V
01 4822 209 33663 02 4822 214 52009 .S 01 4822 242 81016 02 5322 242 73697	TMP87CM70AF-AZ8640.1 INFRARED RECEIVER, GP1U58XP  X-TAL 32,768kHz CERAM.RES. 8MHz	3449 3450 3451 3452 3453 3454 3455 3456 3457 3458	4822 116 52234 4822 116 52234	100k 100k 100k 100k 100k 100k 100k	5% 5% 5% 5% 5% 5% 5%	0,5W 0,5W 0,5W 0,5W 0,5W 0,5W 0,5W 0,5W	2406 2407 2408 2410 2411 2412 2413 2415	4822 124 42446 4822 126 13325 4822 126 12882 4822 122 33195 4822 122 33195 4822 122 33197 4822 122 33197 4822 122 33197	100µF 100nF 100nF 100pF 100pF 100pF 470pF 1nF	10% 50V 10% 10% 10% 10%	50V 50V 50V 50V 50V 50V
01 4822 209 33663 02 4822 214 52009 03 4822 242 81016 01 4822 242 81016 02 5322 242 73697	TMP87CM70AF-AZ8640.1 INFRARED RECEIVER, GP1U58XP  X-TAL 32,768kHz CERAM.RES. 8MHz	3449 3450 3451 3452 3453 3454 3455 3456 3457 3458 3459	4822 116 52234 4822 116 52234	100k 100k 100k 100k 100k 100k 100k 100k	5% 5% 5% 5% 5% 5% 5% 5%	0,5W 0,5W 0,5W 0,5W 0,5W 0,5W 0,5W 0,5W	2406 2407 2408 2410 2411 2412 2413 2415	4822 124 42446 4822 126 13325 4822 126 12882 4822 122 33195 4822 122 33195 4822 122 33195 4822 122 33197	100µF 100nF 100nF 100pF 100pF 100pF 470pF 1nF	10% 50V 10% 10% 10% 10%	50V 50V 50V 50V 50V 50V
01 4822 209 33663 02 4822 214 52009 03 4822 242 81016 01 4822 242 81016 02 5322 242 73697	TMP87CM70AF-AZ8640.1 INFRARED RECEIVER, GP1U58XP  X-TAL 32,768kHz CERAM.RES. 8MHz	3449 3450 3451 3452 3453 3454 3455 3456 3457 3458 3459 3459	4822 116 52234 4822 116 52234	100k 100k 100k 100k 100k 100k 100k 100k	5% 5% 5% 5% 5% 5% 5%	0,5W 0,5W 0,5W 0,5W 0,5W 0,5W 0,5W 0,5W	2406 2407 2408 2410 2411 2412 2413 2415	4822 124 42446 4822 126 13325 4822 126 12882 4822 122 33195 4822 122 33195 4822 122 33197 4822 122 33197 4822 122 33197	100µF 100nF 100nF 100pF 100pF 100pF 470pF 1nF	10% 50V 10% 10% 10% 10%	50V 50V 50V 50V 50V 50V
01 4822 209 33663 02 4822 214 52009 .S 01 4822 242 81016 02 5322 242 73697 03 4822 157 62552	TMP87CM70AF-AZ8640.1 INFRARED RECEIVER, GP1U58XP  X-TAL 32,768kHz CERAM.RES. 8MHz	3449 3450 3451 3452 3453 3454 3455 3456 3457 3458 3459 3459	4822 116 52234 4822 116 52234	100k 100k 100k 100k 100k 100k 100k 100k	5% 5% 5% 5% 5% 5% 5% 5%	0,5W 0,5W 0,5W 0,5W 0,5W 0,5W 0,5W 0,5W	2406 2407 2408 2410 2411 2412 2413 2415 2416 2417	4822 124 42446 4822 126 13325 4822 126 12882 4822 122 33195 4822 122 33195 4822 122 33197 4822 122 33197 4822 122 33197 4822 122 33197	100µF 100nF 100nF 100pF 100pF 100pF 470pF 1nF	10% 50V 10% 10% 10% 10%	50V 50V 50V 50V 50V 50V
01 4822 209 33663 02 4822 214 52009 .S 01 4822 242 81016 02 5322 242 73697 03 4822 157 62552	TMP87CM70AF-AZ8640.1 INFRARED RECEIVER, GP1U58XP  X-TAL 32,768kHz CERAM.RES. 8MHz	3449 3450 3451 3452 3453 3454 3455 3456 3457 3458 3459 3460 3461	4822 116 52234 4822 116 52234	100k 100k 100k 100k 100k 100k 100k 100k	5% 5% 5% 5% 5% 5% 5% 5%	0,5W 0,5W 0,5W 0,5W 0,5W 0,5W 0,5W 0,5W	2406 2407 2408 2410 2411 2412 2413 2415 2416 2417	4822 124 42446 4822 126 13325 4822 126 12882 4822 122 33195 4822 122 33195 4822 122 33197 4822 122 33197 4822 122 33197	100µF 100nF 100nF 100pF 100pF 100pF 470pF 1nF	10% 50V 10% 10% 10% 10%	50V 50V 50V 50V 50V 50V
01 4822 209 33663 102 4822 214 52009 .S 01 4822 242 81016 102 5322 242 73697 103 4822 157 62552	TMP87CM70AF-AZ8640.1 INFRARED RECEIVER, GP1U58XP  X-TAL 32,768kHz CERAM.RES. 8MHz COIL 2,2µH	3449 3450 3451 3452 3453 3454 3455 3456 3457 3458 3459 3460 3461	4822 116 52234 4822 116 52234	100k 100k 100k 100k 100k 100k 100k 100k	5% 5% 5% 5% 5% 5% 5% 5% 5%	0,5W 0,5W 0,5W 0,5W 0,5W 0,5W 0,5W 0,5W	2406 2407 2408 2410 2411 2412 2413 2415 2416 2417	4822 124 42446 4822 126 13325 4822 126 1282 4822 122 33195 4822 122 33195 4822 122 33197 4822 122 33197 4822 122 33197 4822 122 33197	100µF 100nF 100nF 100pF 100pF 100pF 470pF 1nF	10% 50V 10% 10% 10% 10%	50V 50V 50V 50V 50V 50V 50V
01 4822 209 33663 02 4822 214 52009 .S 01 4822 242 81016 02 5322 242 73697 03 4822 157 62552 ISTORS	TMP87CM70AF-AZ8640.1 INFRARED RECEIVER, GP1U58XP  X-TAL 32,768kHz CERAM.RES. 8MHz	3449 3450 3451 3452 3453 3454 3455 3456 3457 3468 3461 3462 3462	4822 116 52234 4822 116 52234	100k 100k 100k 100k 100k 100k 100k 100k	5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	0.5W 0.5W 0.5W 0.5W 0.5W 0.5W 0.5W 0.5W	2406 2407 2408 2410 2411 2412 2413 2415 2416 2417	4822 124 42446 4822 126 13325 4822 126 12882 4822 122 33195 4822 122 33195 4822 122 33197 4822 122 33197 4822 122 33197 4822 122 33197	100µF 100nF 100nF 100pF 100pF 100pF 470pF 1nF	10% 50V 10% 10% 10% 10%	50V 50V 50V 50V 50V 50V 50V
01 4822 209 33663 02 4822 214 52009 03 4822 242 81016 02 5322 242 73697 03 4822 157 62552 01 4822 116 52234 02 4822 116 52234	TMP87CM70AF-AZ8640.1 INFRARED RECEIVER, GP1U58XP  X-TAL 32,768kHz CERAM.RES. 8MHz COIL 2,2µH  100k 5% 0,5W 100k 5% 0,5W	3449 3450 3451 3452 3453 3454 3455 3456 3457 3460 3461 3462 3463 3463	4822 116 52234 4822 116 52234	100k 100k 100k 100k 100k 100k 100k 100k	5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	0.5W 0.5W 0.5W 0.5W 0.5W 0.5W 0.5W 0.5W	2406 2407 2408 2410 2411 2412 2413 2415 2416 2417	4822 124 42446 4822 126 13325 4822 126 1282 4822 122 33195 4822 122 33195 4822 122 33197 4822 122 33197 4822 122 33197 4822 122 33197	100µF 100nF 100nF 100pF 100pF 100pF 470pF 1nF	10% 50V 10% 10% 10% 10%	50V 50V 50V 50V 50V 50V 50V
02 4822 214 52009 LS 01 4822 242 81016	TMP87CM70AF-AZ8640.1 INFRARED RECEIVER, GP1U58XP  X-TAL 32,768kHz CERAM.RES. 8MHz COIL 2,2µH  100k 5% 0,5W 100k 5% 0,5W	3449 3450 3451 3452 3453 3454 3455 3456 3459 3460 3461 3462 3463 3464 3463	4822 116 52234 4822 116 52234	100k 100k 100k 100k 100k 100k 100k 100k	5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	0.5W 0.5W 0.5W 0.5W 0.5W 0.5W 0.5W 0.5W	2406 2407 2408 2410 2411 2412 2413 2415 2416 2417	4822 124 42446 4822 126 13325 4822 126 1282 4822 122 33195 4822 122 33195 4822 122 33197 4822 122 33197 4822 122 33197 4822 122 33197	100µF 100nF 100nF 100pF 100pF 100pF 470pF 1nF	10% 50V 10% 10% 10% 10%	50V 50V 50V 50V 50V 50V 50V

RESISTORS

	LF-MAINS BOARD
- 1	MISCELLANEOUS
	1260 4822 265 20287 1264 4822 071 52502 1322 4822 267 31607 1700 4822 277 20594
	DIODES
	6261 4822 130 82078 6270 4822 130 30621 6271 4822 130 30621 6272 4822 130 30621 6273 4822 130 34278
	6274 4822 130 30621 6275 4822 130 34278 6276 4822 130 30621 6277 4822 130 30621 6278 4822 130 30621
	6279 4822 130 30621 6280 4822 130 30621 6290 4822 130 30621 6700 4822 130 30621 6710 4822 130 30621
	6711 4822 130 30621 6712 4822 130 30621
	TRANSISTORS
	7270 4822 130 44196 7271 5322 130 60268 7272 4822 130 41344 7273 4822 130 44196 7274 4822 130 44196
	7275 4822 130 41344 7276 5322 130 60268 7277 4822 130 44196 7278 4822 130 44192 7279 4822 130 44196
	7280 5322 130 60068 7321 5322 130 60068 7322 4822 130 44196 7323 4822 130 44196 7324 4822 130 44196
	7702 4822 130 44196 7703 4822 130 44196 7704 4822 130 41344 7707 5322 130 60068 7708 4822 130 44196
	7709 5322 130 60268 7710 4822 130 44196 7711 4822 130 44196 7712 4822 130 44196
	INTEGRATED CIRCUITS
	7290 4822 209 33664 7501 4822 209 33652 7502 4822 209 83357 7700 4822 209 32918 7701 4822 209 32918

OARD		COILS				
ous		5260	4822 157 70003	COIL, MA	INS FI	LTER
		5302 5700	4822 157 62552 4822 156 20946	OSC.CO	2,2 IL 100k	EH :Hz
	SOCKET, MAINS FUSE T 2,5A	3700	40LE 100 E00 10	000.00		
22 267 31607	SOCKET, HEADPHONE	RESIST	rors			
2 277 20594	SWITCH SLIDE, REC/PB				F0/	0.514/
			4822 116 52217 4822 116 52217	270R 270R	5% 5%	0,5W 0,5W
			4822 116 52199	68R	5%	0,16W
822 130 82078	D5SBA20	3271	4822 116 52244	15k	5%	0,5W
4822 130 30621		3272	4822 116 52224	470R	5%	0,5W
	1N4148					
4822 130 30621			4822 116 52234	100k	5%	0,5W
4822 130 34278			4822 116 52303	8k2	5%	0,5W
			4822 116 52256	2k2	5%	0,16W
4822 130 30621	1N4148		4822 116 52215		5%	0,16W
4822 130 34278		3277	4822 116 52215	220R	5%	0,16W
4822 130 30621	1N4148				F01	0.514
4822 130 30621	1N4148 -		4822 116 52244	15k	5%	0,5W
4822 130 30621	1N4148		4822 116 52224		5%	0,5W
			4822 116 52211	150R	5%	0,5W
4822 130 30621	1N4148		4822 116 52224		5%	0,5W
4822 130 30621	1N4148	3282	4822 116 52234	100k	5%	0,5W
4822 130 30621	1N4148					
4822 130 30621	1N4148		4822 116 52256		5%	0,16W
4822 130 30621	1N4148		4822 116 52238		5%	0,5W
TUEE 100 00021			4822 116 52215		5%	0,16W
4822 130 30621	1N4148		4822 116 52215	220R	5%	0,16W
4822 130 30621	1N4148	3287	4822 116 52244	15k	5%	0,5W
		3288	4822 116 52224	470R	5%	0,5W
ISTORS			4822 116 52215	220R	5%	0.16W
			4822 116 52244		5%	0,5W
4822 130 44196			4822 116 52284		5%	0,5W
5322 130 60268			4822 116 52199			
4822 130 41344		3292	4022 110 32199	0011	J 70	0,1011
4822 130 44196	BC548C	0000	4000 110 50002	2k7	5%	0.5W
4822 130 44196	BC548C		4822 116 52263		5%	0,5W
			4822 116 52283		5%	
4822 130 41344	BC337-40		4822 116 52234			0,5W
5322 130 60268			4822 111 30893		5%	0,2W
4822 130 44196		3298	4822 116 52224	470R	5%	0,5W
4822 130 41327						0.40144
4822 130 44196			4822 116 52193		5%	
			4822 050 11002		5%	0,2W
5322 130 60068	BC558C		4822 050 11002		5%	0,2W
5322 130 60068			4822 116 52222			0,16W
4822 130 44196		3325	4822 116 52222	390R	5%	0,16W
4822 130 44196						
4822 130 44196		3326	4822 116 52211		5°€	0,5W
-022 130 mm 180	55,700	3327	4822 116 52211	150R	5°e	
4822 130 44196	BC548C	3329	4822 052 10228			0,33W
4822 130 44196		3330	4822 052 10228			0,33W
			4822 116 52285		5°₁	0,5W
4822 130 41344 5322 130 60068						
4822 130 60066		3332	4822 116 52258	220k	5°€	0,5W
4022 130 44 196	BU346U ,		4822 116 81682	2M2	5°c	0,5W
E000 400 00000	PD220		4822 116 52222		5°.c	0,16W
5322 130 60268		3335	4822 116 52222			0,16W
4822 130 44196			4822 116 52284		5° e	
4822 130 44196		3000				
4822 130 44196	BC548C	3337	4822 116 52271	33k	5°-c	0,16W
4.TED 0:00:			4822 116 52234		5°=	
RATED CIRCUITS			4822 116 52233		50,0	
1000 000 000	ANIZAGE		4822 116 52233		5°-	
4822 209 33664	AN/ 135		4822 116 52269		5°c	
4822 209 33652	TEA6321T/V1	3341	-OLE 110 JE203	JAJ	5 %	5,1044
4822 209 83357		20.40	4000 110 50000	262	55.	0.1614
4822 209 32918			4822 116 52269			0,16W 0,16W
4822 209 32918			4822 116 52263			
			4822 116 52263			0,16W
			4822 116 52249			0,16W 0,16W
			4822 116 52249	1k8	50	n 16W

ESIST	ORS				RESISTORS
				0.514	3746 4822 111 30893 4M7 5% 0,2W
555	4822 116 52251	18k	5%	0,5W	3747 4822 116 52234 100k 5% 0,5W
556	4822 116 52251	18k	5%	0.5W	3748 4822 116 52258 220k 5% 0,5W
57	4822 116 52256	2k2	5%	0,16W	3750 4822 116 52256 2k2 5% 0,16W
558	4822 116 52256	2k2	5%	0,16W 0,5W	3751 4822 116 52256 2k2 5% 0,16W
59	4822 116 52283	4k7	5%	U,SW	
		4k7	5%	0,5W	3753 4822 116 52285 470k 5% 0,5W
	4822 116 52283			0,16W	3754 4822 116 52233 10k 5% 0,5W
61	4822 116 52303	8 k2	5%		3756 4822 116 52289 5k6 5% 0,16W
62	4822 116 52303	3 8k2	5%	0,16W	3757 4822 116 52233 10k 5% 0,5W
63	4822 116 52283	3 4k7	5%	0,5W	3758 4822 050 11002 1k 5% 0,2W
64	4822 116 52283	3 4k7	5%	0,5W	3/36 4022 000 11002
					3759 4822 116 52292 560k 5% 0,16W
65	4822 116 5223	3 10k	5%	0,5W	3760 4822 116 52215 220R 5% 0,16W
66	4822 116 5223	3 10k	5%	0,5W	3761 4822 116 52215 220R 5% 0,16W
67	4822 116 5228	9 5k6	5%	0,16W	3763 4822 116 52233 10k 5% 0,5W
RA.	4822 116 5228	9 5k6	5%	0,16W	3/63 4022 110 32200
70	4822 116 5228	3 4k7	5%	0,5W	3764 4822 116 52228 680R 5% 0,5W
					2765 4822 116 52296 6k8 5% 0,5W
71	4822 116 5228	3 4k7	5%	0,5W	3/65 4622 110 32230
	4822 116 5228		5%	0,5W	3/66 4822 110 32203
	4822 116 5228	-	5%	0.5W	3/00 4022 110 32250
73	4000 116 5000		5%	0.5W	3/09 4022 110 32230
	4822 116 5228	_	5%	0.5W	3770 4822 116 52298 680k 5% 0,5W
75	4822 116 5228	3 46/	370	5,511	
	1000 410 7500	9 41-7	5%	0.5W	3771 4822 116 52251 18k 5% 0,16W
	4822 116 5228				2772 4822 116 52251 18k 5% 0,16W
	4822 116 5228		5%	0,5W	3775 4822 116 52297 68k 5% 0,5W
	4822 116 5227		5%	0,5W	3776 4822 116 52297 68k 5% 0,5W
	4822 116 5227		5%	0,5W	3777 4822 116 52257 22k 5% 0,5W
702	4822 116 5224	3 1k5	5%	0,5W	
				0.534	3778 4822 116 52257 22k 5% 0,5W
	4822 116 5224		5%	0,5W	3779 4822 116 52191 33R 5% 0.5W
	4822 116 5222		5%	0,5W	3781 4822 116 52233 10k 5% 0,5W
	4822 116 5222		5%	0,5W	3/81 4022 110 00200
706	4822 116 5221		5%	0,16W	3/62 4622 110 32250
07	4822 116 522	5 220R	5%	0,16W	3783 4822 116 52234 100k 5% 0,5W
٠.					279.4 4822 116 52234 100k 5% 0,5W
08	4822 116 5217	75 100R	5%	0,5W	3/84 4022 110 32204
	4822 116 521	-	5%	0,5W	3/90 4822 110 32230 2231
	4822 116 522	-	5%	0,5W	3/91 4022 030 11002
	4822 116 522		5%	0.5W	3/95 4822 110 00170
	4822 116 522		5%	0,5W	3796 4822 116 80176 1R 5% 0,5W
12	-+022 110 JZZ	: 1.0.1	2.3		2707 4922 116 52249 1k8 5% 0,16W
712	4822 116 522	24 470R	5%	0,5\V	3/9/ 4022 110 32240
	4822 116 522		5%	0,16W	3798 4822 116 52249 1k8 5% 0,16W
	4822 116 522	-	5%	0,16W	
			5%	0,5W	
	4822 116 521		5%	0.5W	CHIP RESISTORS FROM PRINT STAGE .5 ONWA
5/17	4822 116 521	,5 100h	5 /0	0,077	
740	4822 116 521	75 100R	5%	0.5W	3590 4822 051 10008 CHIP JUMPER 1206
			5%	0.16W	3591 4822 051 20008 CHIP JUMPER 0805
	4822 116 522		5%	0.161	
	4822 116 522		5%	0.16%	CAPACITORS
	1 4822 116 522			0.50	
3722	2 4822 116 522	44 15k	5%	0.244	2260 4822 121 70087 47nF 10% 250V
					2261 4822 121 42408 220nF 5% 63V
	3 4822 116 522		5%		2262 4822 121 42408 220nF 5% 63V
3723	3 4022 110 324		5%	0.51	2202 4022 121 42400 22511
	4 4822 116 521	75 100R		0.53	2263 4622 121 42400 225111
3724	4 4822 116 521		5%	0.5	2264 4822 121 42408 220nF 5% 63V
3724 3725	4 4822 116 521 5 4822 116 522	65 270k		0.2**	
3724 3725 3726	4 4822 116 521 5 4822 116 522 6 4822 116 522	65 270k 65 270k			1.F 200/ E2V
3724 3725 3726	4 4822 116 521 5 4822 116 522	65 270k 65 270k	5%		2267 4822 124 40242 1µF 20% 63V
3724 3725 3726 3726	4 4822 116 521 5 4822 116 522 6 4822 116 522 7 4822 116 522	65 270k 65 270k 65 270k	5% 5%	0.53	2268 4822 124 40242 1µF 20% 63V
3724 3725 3726 3726 3727	4 4822 116 521 5 4822 116 522 6 4822 116 522 7 4822 116 522 8 4822 116 522	65 270k 65 270k 65 270k 244 15k	5% 5%	0.5 N 0.5 N	2268 4822 124 40242 1µF 20% 63V 2270 4822 124 42119 4700µF 20% 25V
3724 3725 3726 3727 3727 3728	4 4822 116 521 5 4822 116 522 6 4822 116 522 7 4822 116 522 8 4822 116 522 9 4822 116 522	265 270k 265 270k 265 270k 244 15k 244 15k	5% 5% 5%	0.5 N 0.5 N 0.5 N	2268 4822 124 40242 1µF 20% 63V 2270 4822 124 42119 4700µF 20% 25V 2271 4822 126 12882 100nF 50V
3724 3725 3726 3726 3726 3726 3736	4 4822 116 521 5 4822 116 522 6 4822 116 522 7 4822 116 522 8 4822 116 522 9 4822 116 522 0 4822 116 522	270k 265 270k 265 270k 244 15k 244 15k 234 100k	5% 5% 5% 5%	0.5 A 0.5 A 0.5 A	2268 4822 124 40242 1µF 20% 63V 2270 4822 124 42119 4700µF 20% 25V
3724 3725 3726 3726 3726 3726 3736 373	4 4822 116 521 5 4822 116 522 6 4822 116 522 7 4822 116 522 8 4822 116 522 9 4822 116 522 0 4822 116 523 1 4822 116 523	270k 265 270k 265 270k 244 15k 244 15k 234 100k 234 100k	5% 5% 5% 5% 5%	0.5 N 0.5 N 0.5 A 0.5 A 0.5 N	2268 4822 124 40242 1µF 20% 63V 2270 4822 124 42119 4700µF 20% 25V 2271 4822 126 12882 100nF 50V 2272 5322 121 42386 100nF 5% 63V
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OHEN	BOARD E	CO4VA-PA	RESIS	IOHS			
MISCELL	ANEOUS			4822 116 5217		5%	0,5W
				4822 116 5222		5%	-,
1101 4	1822 267 10283	SOCKET COAX IEC 75R (NOT FOR 102)		4822 116 5228		5%	
DIODES				4822 116 5225 4822 116 5228		5% 5%	0,16W 0,5W
6101 4	822 130 30621	1N4148	3141	4822 116 5221	5 220R	5%	0,16W
	822 130 83075	HN1V02H (TUNING DIODE)		4822 100 1116		POT. 10	
	822 130 82833	1SV228 (TUNING DIODE)		4822 116 52243		5%	0,16W
	822 130 30621	1N4148	3156	4822 116 52233	3 10k	5%	0,5W
	822 130 30621	1N4148	3162	4822 050 11002	2 1k	5%	0,2W
6123 4	822 130 30621	1N4148		4822 050 11002		5%	0,2W
6124 4	822 130 82833	1SV228 (TUNING DIODE)		4822 116 52283		5%	0,5W
6140 4	822 130 30621	1N4148		4822 116 52244		5%	0,5W
6154 4	822 130 30621	1N4148		4822 116 52233		5%	0,5W
6174 4	822 130 34174	BZX79-B4V7	3177	4822 116 52233	3 10k	5%	0,5W
	822 130 30621	1N4148		4822 116 52249		5%	0,16W
	822 130 30621	1N4148		4822 116 52249		5%	0,16W
6182 4	822 130 30621	1N4148		4822 116 52249		5%	0,16W
				4822 116 52249		5%	0,16W
RANSIS	TORS		3196	4822 116 52233	10k	5%	0,5W
	322 130 42136	BC848C(CHIP)		4822 050 11002		5%	0,2W
	322 130 42136	BC848C(CHIP)		4822 116 52256		5%	0,16W
	822 130 60093	2SA838B	3206	4822 116 52215	220R	5%	0,16W
	322 130 60163 322 130 42136	2SC1047 BC848C(CHIP)	CHIP R	ESISTORS			
7100 50	322 130 42136	200100101101	2106	4822 051 20104	100k	- FW	0.4144
	322 130 42136	BC848C(CHIP)		4822 051 20104		5% 5%	0,1W
	322 130 42 136	BC848C(CHIP)		4822 051 20222		5%	0,1W
	322 130 41983	DC030B(CHIP)	3100	4822 051 20104			0,1W 0,1W
	322 130 42136	BC848C(CHIP) BC848C(CHIP)		4822 051 20479		5% 5%	0,1W
7175 40	322 130 44197	BC558B	2116	4822 051 20335	3M3	5%	0.4144
	22 130 44 197			4822 051 20303		5%	0,1W 0,1W
	22 130 42136	BC848C(CHIP)		4822 051 20104	470R	5%	0,1W
	22 130 42136	BC848C(CHIP) BC848C(CHIP)		4822 051 20223	22k	5%	0,1W
		BC646C(CHIF)		4822 051 20472	4k7	5%	0,1W
ITEGRAT	TED CIRCUITS		3128	4822 117 10833	10k	1%	0,1W
7140 48	22 209 32701	TEA5712T/N2 (RF IC)		4822 051 20472	4k7	5%	0,1W
	22 209 11517	PC74HCU04T (6x INVERTER)		4822 051 20224	220k	5%	0,1W
	22 209 31998	LC7218M (SYNTHESIZER)		4822 051 20104	100k	5%	0.1W
	22 209 14482	HEF4069UBT (6x INVERTER)		4822 051 20104	100k	5%	0,1W
OILS			3139	4822 051 20104	100k	5%	0,1W
				4822 051 20222	2k2	5%	0,1W
5105 48	22 158 60641	FERRITE ANT., MW/LW		4822 117 10833	10k	1%	0,1W
	22 158 60642	FERRITE ANT., MW		4822 051 20184	180k	5%	0,1W
109 48	22 156 30947	RF COIL 1,5 TURNS	3149	4822 051 20563	56k	5%	0,1W
	22 156 30947	RF COIL 1,5 TURNS					
5122 48	22 157 60517	OSC. COIL LW		4822 051 20273	27k	5%	0,1W
				4822 051 20189	18R	5%	0,1W
	22 157 60517	OSC. COIL MW		4822 051 20563	56k	5%	0,1W
	22 158 60511	AM-IF FILTER 450kHz		4822 051 20331	330R	5%	0,1W
	22 157 70302	AM-IF FILTER 450kHz	3168	4822 117 10833	10k	1%	0,1W
	22 242 70665	CER. FILTER 10,7MHZ	0400	4000 0F4 0000 :	000		
144 482	22 242 70665	CER. FILTER 10,7MHZ		4822 051 20224	220k	5%	0,1W
145 400	22 242 81362	CER DISCRIMINATOR		4822 051 20101 4822 051 20472	100R	5%	0,1W
		CER. DISCRIMINATOR			4k7	5% 5%	0,1W 0,1W
402	LE 246 12910	CER.RESONATOR 7,2M∺:		4822 051 20104 4822 051 20101	100k 100R	5% 5%	0,1W 0,1W
			2102	4822 051 20223	22k	5%	
				4822 051 20223	22k 22k		0,1W
				4822 051 20223 4822 051 20104		5%	0,1W
				4822 051 20104	100k 1k	5%	0,1W
				4822 051 10102 4822 051 20224	220k	2% 5%	0,25W 0,1W
			3133	4022 031 20224	ZZUK	J /6	0,144
			3211	4822 051 20224 4822 051 10008 4822 051 10008	CHIP JUI	MPER	1206

CHIP I	RESIS	TOF	s				
			1 10008				
3222	4822	051	20008	CHIP JU	MPER O	805	
3223	482	2 05	20008	CHIP JU	MPER O	805 806	
3226	482	2 051	20008	CHIP JU	MPER 0	<b>6</b> 05	
3228	482	2.051	1 10008	CHIP JU	MPFR 1	206	
				CHIP JU			
				CHIP JU			
3233	4822	2 051	20008	CHIP JU	MPER 0	805	
3234	4822	2 051	20006	CHIP JU	MPER 0	805	
3235	4822	051	20008	CHIP JU CHIP JU	MPER 0	805	
3237	482	051	20008	CHIP III	MPERI	200 805	
3240	4822	051	10008	CHIP JU	MPER 1	206	
3241	4822	051	20008	CHIP JU	MPER 0	805	
3242	482	2 051	10008	CHIP JU			
3243	482	2 051	20008	CHIP JU			
3244	482	2 051	20008	CHIP JU			
3245	482	051	20008 20008 20008 10008	CHIP JU			
3247 3248	4822 4822	051	10008	CHIP JU	MPER 1: MPER 1:	206 206	
CAPAC							
2104	4822	122	33195	100pF	10%	50V	
				3-11pF V			
			33195	100pF	10%	50V	
			51387	10nF	20%	16V	
			43705			160V	
2130	4822	125	50355	4,2-20pF	VARIA	BLE	
2131	4822	122	33197	1nF	10% 10%	50V	
			33197	1nF	10%	50V	
			70245 40244	560pF 2,2µF	20%	160V 63V	
2142	4822	124	40242	1µF	20%		
			40239	0.47pF	20%	63V	
			40239	0,47µF	20%	63V	
			40248		20%	63V	
2151	4822	124	40248	10µF	20%	63V	
2152	4822	124	41584	4	20%	001/	
2164	4022	124	40242	1μF	20%	63V 63V	
2157	4022	124	40242 40248	10.5	20%	63V	
2164	4822	124	40248	10μF	20% 20% 20% 20%	63V	
2170	4822	126	11714		20%		
2172	4822	124	41631	1,5µF	20%	50V	
2173	4822	124	11714 41631 40433 33197	47µF	20%	25V	
2174	4822	122	33197	1nF	10% 10%	50V	
2175	4822	122	33197		10%	· 50V	
2177	4822	126	12882	100nF 1nF 100pF	50V	50V	
2178	4022	122	33197	10005	10% 10%	50V 50V	
2184	4822	124	33195 41584	100pF		10V	
2159	4822	124	41584 40433	47µF	20%	25V	
CHIP C	APAC	TOF	RS				
2107	5322	122	34123	1nF	10%	50V	
2110	5322	122	32659	33pF	5%	50V	MW/LW
2110	5322	122	32269	33pF 6,8pF 100nF 100pF	5%	50V	MW
2112	4822	122	33496 33521	10005	10% 5%	63V 50V	

	CHIP	CAPA	CITORS
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CHIF CAI ACTIONS				
2120 5322 122 32268	470pF	10%	50V	
2121 5322 122 32481	15pF	5%	50V	
2122 5322 122 34123	1nF	10%	50V	
2123 5322 122 34123	1nF	10%	50V	
2133 4822 122 33128	15nF	10%	63V	
2138 5322 122 32659	33pF	5%	50V	
2139 4822 122 33891	3,3nF	10%	63V	
2145 4822 122 33496	100nF	10%	63V	
2146 5322 122 33063	2,2pF	10%	50V	
2147 4822 122 33177	10nF	20%	50V	
2148 5322 122 34123	1nF	10%	50V	
2149 5322 122 34123	1nF	10%	50V	
2154 4822 122 33893	18nF	10%	63V	
2155 4822 122 33893	18nF	10%	63V	
2163 5322 122 34123	1nF	10%	50V	
2165 5322 122 34123	1nF	10%	50V	
2167 4822 122 33496	100nF	10%	63V	
2169 5322 122 31863	330pF	5%	50V	
2171 5322 126 10223	4.7nF	10%	63V	
2180 5322 122 31946	27pF	5%	50V	
2181 4822 122 32139	12pF	5%	63V	
2182 4822 122 33496	100nF	10%	63V	
2183 4822 122 33496	100nF	10%	63V	
2185 4822 122 33496	100nF	10%	63V	
2186 5322 122 34123	1nF	10%	50V	

CD BO	DARD					RESIS	TORS					23H
	LANGOUS					3847	4822	116 40227	4R7	PTC		-
MISCEL	LANEOUS					3848	4822	050 11002	1k	5%	0,2W	21
			TDAY			3849	4822	052 10338	3R3		NFR25	. 3
1810	4822 276 13503	SWITCH	, IHAY			3850	4822	050 11002	1k	5% 5%	0,2W 0,5W	.5:
						3851	4822	116 52264	27k	3%	0,5**	
DIODES	3							050 11002	1k	5%	0,2W	
COET	4822 130 30621	1N4148				3853	4822	116 52296	6k8	5%	0,5W	
	4822 130 31981	BZX79-C	31/0			3857	4822	116 52215	220R	5%	0,16W	
		BZX79-C				3858	4822	116 52215	220R	5%	0,16W	
6883	4822 130 31981	BZX/9-C	~3V9			3860	4822	116 52175	100R	5%	0,5W	
						2071	4022	116 52186	22R	5%	0,5W	
TRANS	ISTORS							116 52284	47k	5%	0,5W	
7000	4000 100 41044	BC337-4	0			3877	4822	116 52284	47k	5%	0,5W	
	4822 130 41344			۵۱		3880	4822	050 11002	1k	5%	0,2W	
	5322 130 60123	BC807-4				3881	4822	050 11002	1k	5%	0,2W	
	5322 130 42136	BC848C										
	5322 130 41983	BC858B				3886	4822	116 52226	560R	5%	0,5W	
7883	4822 130 44197	BC558B						116 52233	10k	5%	0,5W	
								116 52186	22R	5%	0,5W	
	4822 130 41344	BC337-4				567.						
7885	4822 130 41344	BC337-4	U						•			
						CHIP F	RESIST	TORS				
NTEG	RATED CIRCUITS					3750	4822	051 20154	150k	5%	0,1W	
	**************************************	007411	110.17					051 20331	330R	5%	0,1W	
	5322 209 11517	PC74HC						051 20221	220R	5%	0,1W	
	4822 209 31064	TDA130						051 20105	1M	5%	0,1W	
	4822 209 32852	TDA707						117 10833	10k	1%	0,1W	
7852	4822 209 32852	TDA707	3A/N2			3/55	4022	117 10033	100	1 70	0,	
7855	4822 209 31519	TDA707	2A			3762	4822	051 20221	220R	5%	0,1W	
								051 20221	220R	5%	0,1W	
7860	4822 209 33339	SAA734	5GP/M	5					220R	5%	0,1W	
7871	4822 209 32196	TDA131	1AT/N2	!				051 20221				
7886	4822 272 10371	7805 (Vo	oltage n	egulator)				117 10833	10k	1%	0,1W	
	4822 209 33337	MC68HC				3790	4822	117 10833	10k	1%	0,1W	
						3791	4822	117 10833	10k	1%	0,1W	
								117 10833	10k	1%	0,1W	
COILS								117 10833	10k	1%	0,1W	
								117 10833	10k	1%	0,1W	
	4822 543 00376	QUART			± 0 MHz			051 10102	1k	2%	0,25W	
2090	4822 242 72527	CERMIN	IC RES	ONATOR	U MI 12							
								051 20335	3M3	5%	0,1W	
RESIST	TORS							051 20682	6k8	5%	0,1W	
						3805	4822	051 20223	22k	5%	0,1W	
3760	4822 116 52296	6k8	5%	0,5W		3806	4822	117 10833	10k	1%	0,1W	
	4822 116 52283	4k7	5%	0,5W		3807	4822	117 10833	10k	1%	0,1W	
	4822 116 52224	470R	5%	0,5W							_	
	4822 050 11002	1k	5%	0,2W		3808	4822	117 10834	47k	1%	0,1W	
		10k	5%	0.5W		3809	4822	051 20332	3k3	5%	0,1W	
3518	4822 116 52233	IUK	376	0.5				051 20332	3k3	5%	0,1W	
0000	1000 050 11005	41.	E4.	0.014				051 20223	22k	5%	0,1W	
	4822 050 11002	1k	5%	0.2W				051 20332	3k3	5%	0,1W	
	4822 116 52233	10k	5%	0.5W		5512						
	4822 116 52233	10k	5%	0,5W		2012	4922	051 20332	3k3	5%	0,1W	
	4822 116 52233	10k	5%	0.5W				051 20332	3k3	5%	0,1W	
3828	4822 116 52233	10k	5%	0.5W					120k	5%	0,1W	
								051 20124			0,1W	
3829	4822 116 52233	10k	5%	0,5W				051 20563	56k	5%		
	4822 116 52233	10k	5%	0.5W		3823	4822	051 20331	330R	5%	0,1W	
	4822 116 52175	100R	5%	0.5W							0 4144	
	4822 116 52233	10k	5%	0.5W				051 20124	120k	5%	0,1W	
	4822 116 52264	27k	5%	0.511				051 20223	22k	5%	0,1W	
2300			3.0					051 20229	22R	5%	0,1W	
3836	4822 116 52207	1k2	5%	0.511		3842	4822	051 20182	1k8	5%	0,1W	
	4822 116 52296	6k8	5%	0.511		3854	4822	117 10833	10k	1%	0,1W	
	4822 116 52257	22k	5%	0.511								
						3855	4822	051 20224	220k	5%	0,1W	
	4822 116 52207	1k2	5%	0.511				051 20223	22k	5%	C,1W	
3840	4822 116 52296	6k8	5%	0.5\\				051 20105	1M	5%	0,1W	
								051 10102	1k	2%	0,25W	
	4822 116 52297	68k	5%	0.5W				051 10102	1k			
	4822 116 52277	39k	5%	0,16W		3004	022				-,	
	4822 050 11002	1k	5%	0.2W		2000	400	051 10102	1k	2%	0,25W	
3845	4822 116 52277	39k	5%	0,16W					330R	5%		
3846	4822 050 11002	1k	5%	0.2W				051 20331				
						3867	4822	2 051 20472	4k7	5%	0,1W	47

CHIP	RESIS	TOF	ns .				
3216	4822	05	1 10008	CHIP JU	MPER 12	06	
3222	4822	051	20008	CHIP JU CHIP JU CHIP JU CHIP JU	MPER 08	05	
3223	4822	2 05	1 20008	CHIP JU	MPER 08	05	
3224	4822	05	1 20008	CHIP JU	MPER 08	05	
3228	4822	2 05	1 10008	CHIP JU	MPER 12	906	
3223	482	. 00	20008	CHIP JU	MPER U	ine ine	
3231	4024	. UO	1 20008	CHIP JU	MPER U	NE CO	
			20008				
			1 20008				
3237	482	051	10008	CHIP JU			
3238	4822	051	20008	CHIP JU	MPER 08	05	
3240	4822	2 051	1 10008	CHIP JU	MPER 12	06	
3241	4822	2 051	1 20008				
3242	4822	2 05	1 10008	CHIP JU	MPER 12	:06	
3243	4822	2 05	20008	CHIP JU	MPER 08	05	
3244	482	05	20008	CHIP JU	MPER 08	U5	
3245	4822	05	20008	CHIP JU CHIP JU CHIP JU	MPER 08	105	
3247 3248	4822 4822	051	10008	CHIP JU	MPER 12 MPER 12	106 106	
CAPA							
2104	4822	122	33195	100pF	10%	50V	
2115	4822	125	60101	3-11pF V	ARIABLE		
2118	4822	122	2 33195	100pF	10%	50V	
2124	4822	121	51387	10nF	20%	16V	
			43705	•		160V	
2130	4822	125	5 50355	4,2-20pF 1nF 1nF	10% 10%	LE	
2131	4822	122	2 33197	1nF	10%	50V	
2134	4022	122	233197	FEONE	10%	160V	
2141	4822	124	70245 40244	560pF 2,2µF	20%	63V	
			40242	1µF		63V	
2142	4022	124	40239	0 47.E	200/	63V	
2140	4022	124	40239	0,47µF	20%	63V	
2150	4822	124	40248	10uF	20%	63V	
2151	4822	124	40248	10µF	20% 20%	63V	
			41584	100µF	20%	10V	
2160	4822	124	40242	100μF 1μF 1μF	20%	63V	
2161	4822	124	40242 40248	. 1µF	20%	63V 63V	
2162 2164	4822	124	40248	10μF 10μF	20% 20% 20%	63V	
			11714	4,7nF	20%		
2172	4822	124	41631	1.5uF	20%	50V	
2173	4822	124	40433	47uF	20%	25V	
			33197	1nF	10%	50V	
			33197	1nF	20% 20% 10% 10%	· 50V	
2177	4822	126	12882		50V		
2178	4822	122	33197	1nF	10%	50V	
2179	4822	122	33195	100pF	10%	50V	
2154	4822	124	41584	100µF	20%	10V	
				100pF 100pF 100pF 47pF	20%	25V	
CHIP C							
			34123	1nF 33pF	10%	50V	A 614/6 151
2770	5522	122	32659	53pr	5% 5%	50∨ 50V	MW/LW
2110	4822	122	33496	100oF	10%	63V	MW
2114	5322	122	32531	6,8pF 100nF 100pF	5%	50V	

CHIP C	APACITORS			
2120	5322 122 32268	470pF	10%	50V
2121	5322 122 32481	15pF	5%	50V
2122	5322 122 34123	1nF	10%	50V
2123	5322 122 34123	1nF	10%	50V
2133	4822 122 33128	15nF	10%	63V
2138	5322 122 32659	33pF	5%	50V
2139	4822 122 33891	3,3nF	10%	63V
2145	4822 122 33496	100nF	10%	63V
2146	5322 122 33063	2,2pF	10%	50V
2147	4822 122 33177	10nF	20%	50V
2148	5322 122 34123	1nF	10%	50V
2149	5322 122 34123	1nF	10%	50V
2154	4822 122 33893	18nF	10%	63V
2155	4822 122 33893	18nF	10%	63V
2163	5322 122 34123	1nF	10%	50V
2165	5322 122 34123	1nF	10%	50V
2167	4822 122 33496	100nF	10%	63V
2169	5322 122 31863	330pF	5%	50V
2171	5322 126 10223	4,7nF	10%	63V
2180	5322 122 31946	27pF	5%	50V
2181	4822 122 32139	12pF	5%	63V
2182	4822 122 33496	100nF	10%	63V
2183	4822 122 33496	100nF	10%	63V
2185	4822 122 33496	100nF	10%	63V
2186	5322 122 34123	1nF	10%	50V

CD BO	DARD					RESIST	rors					384 ᢏ
						3847	4822 1	16 40227	4R7	PTC		
MISCEL	LANEOUS							050 11002	1k	5%	0,2W	121
								052 10338	3R3		NFR25	25
1810	4822 276 13503	SWITCH	, TRAY					50 11002	1k	5%	0,2W	2
								16 52264	27k	5%	0,5W	
DIODES	8						4000		1k	5%	0,2W	
								050 11002 116 52296	6k8	5%	0,2VV	
6857	4822 130 30621	1N4148						116 52215	220R	5%	0.16W	
6881	4822 130 31981	BZX79-C	:3V9						220R	5%	0,16W	
	4822 130 31981	BZX79-0	:3V9					116 52215 116 52175	100R	5%	0,5W	
						3000	4022	110 32 173	10011	0.0	0,0	
						3871	4822 1	116 52186	22R	5%	0,5W	
THANS	ISTORS					3876	4822 1	116 52284	47k	5%	0,5W	
7920	4822 130 41344	BC337-4	10					116 52284	47k	5%	0,5W	
	5322 130 60123	BC807-4	-	<b>&gt;</b> )				050 11002	1k	5%	0,2W	
	5322 130 42136	BC848C				3881	4822 (	050 11002	1k	5%	0,2W	
	5322 130 41983	BC858B						440 50000	ECOD	5%	0,5W	
	4822 130 44197	BC558B						116 52226	560R 10k	5%	0,5W	
								116 52233	22R	5%	0,5W	
	4822 130 41344	BC337-4	ю			38 31	4822	116 52186	2211	576	0,5**	
7885	4822 130 41344	BC337-4	Ю									
						CHIP F	RESIST	ORS				
INITEO	RATED CIRCUITS											
MIEGI	WIED CIUCUIIS							051 20154	150k	5%	0,1W	
7800	5322 209 11517	PC74HC	LIO4T					051 20331	330R	5%	0,1W	
	4822 209 31064	TDA130						051 20221	220R	5%	0,1W	
	4822 209 31064	TDA707				3754	4822	051 20105	1M	5%	0,1W	
						3755	4822	117 10833	10k	1%	0,1W	
	4822 209 32852	TDA707				2.00						
7855	4822 209 31519	TDA707	ZA			3762	4822	051 20221	220R	5%	0,1W	
	4000 000 00000	C4 4704	CODA			3763	4822	051 20221	220R	5%	0,1W	
	4822 209 33339	SAA734						051 20221	220R	5%	0,1W	
	4822 209 32196	TDA131						117 10833	10k	1%	0,1W	
	4822 272 10371	7805 (V						117 10833	10k	1%	0,1W	
7890	4822 209 33337	MC68HC	205C8F	В		0.00						
								117 10833	10k	1%	0,1W	
0011.0						3792	4822	117 10833	10k	1%	0,1W	
COILS								117 10833	10k	1%	0,1W	
E000	4822 543 00376	QUART	7 16 03	A MAHY		3795	4822	117 10833	10k	1%	0,1W	
	4822 242 72527			ONATOR	4 0 MHz			051 10102	1k	2%	0,25W	
3030	4022 E42 / 202/	OL: Dan		0.4							0.4144	
								051 20335	3M3	5%	0,1W	
RESIST	rors							051 20682	6k8	5%	0,1W	
								051 20223	22k	5%	0,1W	
3760	4822 116 52296	6k8	5%	0,5W				117 10833	10k	1%	0,1W	
	4822 116 52283	4k7	5%	0,5W		3807	4822	117 10833	10k	1%	0,1W	
	4822 116 52224	470R	5%	0.5W								
	4822 050 11002	1k	5%	0.2W				117 10834	47k	1%	0,1W	
	4822 116 52233	10k	5%	0.5W				051 20332	3k3	5%	0,1W	
5510			- ~					051 20332	3k3	5%	0,1W	
3830	4822 050 11002	1k	5%	0.2W				051 20223	22k	5%	0,1W	
	4822 116 52233	10k	5%	0.5W		3812	4822	051 20332	3k3	5%	0,1W	
	4822 116 52233	10k	5%	0.5W								
	4822 116 52233	10k	5%	0.5W				051 20332	3k3	5%	0,1W	
	4822 116 52233	10k	5%	0.5W				051 20332	3k3	5%	0,1W	
3320	.JLL JLLOU		2.0					051 20124	120k	5%	0,1W	
3829	4822 116 52233	10k	5%	0,5W				051 20563	56k	5%	0,1W	
	4822 116 52233	10k	5%	0.5W		3823	4822	051 20331	330R	5%	0,1W	
	4822 116 52175	100R	5%	0.5\\								
	4822 116 52233	10k	5%	0.5W				051 20124	120k	5%	0,1W	
	4822 116 52264	27k	5%	0.5\\				051 20223	22k	5%	0,1W	
5555								051 20229	22R	5%	0,1W	
3836	4822 116 52207	1k2	5°.	0.511				051 20182	1k8	5%	0.1W	
	4822 116 52296	6k8	5%	0.511		3854	4822	117 10833	10k	1%	0,1W	
	4822 116 52257	22k	5%	0.5\\								
	4822 116 52207	1k2	5%	0.511		3855	4822	051 20224	220k	5%	0,1W	
		6k8	5%	0.51		3856	4822	051 20223	22k	5%	0,1W	
3640	4822 116 52296	OKO	370	0.511				051 20105	1M	5%	0,1W	
20.45	4000 110 50007	pa.	E0/	0 514				051 10102	1k	2%	0,25W	
	4822 116 52297	68k	5%	0.5W				051 10102	1k	2%	0,25W	
	4822 116 52277	39k	5%	0,16\\		0004				-		
	4822 050 11002	1k	5%	0.2W		3865	4822	051 10102	1k	2%	0,25W	
	4822 116 52277	39k	5%	0,16W				051 20331	330R	5%	0,1W	
3846	4822 050 11002	1k	5%	0,2W				051 20472	4k7	5%	0,1W	4.
						380/	4022	031 204/2	70/	576	-1	1,

3885 4822 051 20222

3887 4822 051 20473

3890 4822 051 10102

3892 4822 117 10833

3893 4822 117 10833

3894 4822 117 10833

3895 4822 117 10833

3896 4822 117 10833

3899 4822 117 10833

4801 4822 051 10008

CAPACITORS

2752 5322 122 32531

2753 5322 122 32531

2762 5322 122 32658

2763 5322 122 32658

2764 5322 122 32658

2769 4822 124 80115

2770 4822 124 80115

2814 4822 126 12339

2818 4822 124 80483

2831 4822 124 80483

2833 4822 124 80483

2836 4822 126 13098

2837 4822 122 10459

2839 4822 121 51387

2840 4822 122 10576

2843 5322 124 41948

2847 5322 124 41942

2848 4822 124 80483

2849 4822 124 40433

2850 4822 124 80115

2851 4822 121 51387

2853 5322 121 42386

2856 5322 121 42661

2860 4822 124 40177

2864 4822 124 42433

2866 4822 124 42433

2892 4822 124 11423

CAPACITORS

2k2

47k 5% 0.1W

1k 2% 0.25W

10k 1% 0.1W

10k 1%

10k 1%

10k 1%

4802 4822 051 10008 CHIP JUMPER 1206

4805 4822 051 10008 CHIP JUMPER 1206

4806 4822 051 10008 CHIP JUMPER 1206

4808 4822 051 10008 CHIP JUMPER 1206

4809 4822 051 10008 CHIP JUMPER 1206

4810 4822 051 10008 CHIP JUMPER 1206

4811 4822 051 10008 CHIP JUMPER 1206

4812 4822 051 10008 CHIP JUMPER 1206

4813 4822 051 10008 CHIP JUMPER 1206

4814 4822 051 10008 CHIP JUMPER 1206

4815 4822 051 10008 CHIP JUMPER 1206

4816 4822 051 10008 CHIP JUMPER 1206

4820 4822 051 10008 CHIP JUMPER 1206

4850 4822 051 10008 CHIP JUMPER 1206

4851 4822 051 10008 CHIP JUMPER 1206

100pF

22nF

22pF

4.7uF

2,2nF

47uF

47µF

47uF

5.6nF

560pF

10nF

1,8nF

0,47µF

33µF

47µF

47µF

4,7µF

10nF 20%

100nF

47µF

330nF

330µF

330µF

4.7µF

5%

5%

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16V

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6.3V

6.3V

16V

50V

16V

16V

50V

25V

6.3V

25V

25V

16V

63V

63V

10V

6,3V

CHIP JUMPER 1206

2% 0.25W

0.1W

0.1W

O 1W

0,1W

0,1W

2802 4822 122 33064

2803 4822 122 33515

2804 4822 122 33515

2805 5322 122 33538

2806 5322 122 31946

2807 5322 122 32452

2808 5322 122 32452

2809 5322 122 32452

2810 5322 122 32481

2811 5322 122 33538

2820 5322 116 80853

2821 4822 126 10326

2822 5322 122 31863

2823 5322 122 31865

2824 4822 126 10326

2825 4822 122 33575

2826 4822 122 33575

2827 4822 122 33575

2828 4822 122 33575

2829 4822 122 33575

2830 4822 122 33575

2834 5322 122 32654

2838 4822 122 33496

2852 4822 122 33496

2854 5322 122 32531

2857 5322 122 32452

2858 5322 122 32654

2859 4822 122 33496

2862 5322 122 32661

2867 4822 122 33496

2876 5322 122 34123

2877 5322 122 34123

2878 5322 122 32531

2879 5322 122 32531

2881 4822 122 33496

2883 4822 122 33064

2891 4822 122 33496

2893 5322 122 32531

2894 5322 122 32531

2895 5322 122 32531

2897 5322 122 32838

5322 122 32658

2861

330nF

82nF

82pF

150oF

27pF

47nF

47nF

47pF

150F

150pF

560pF

180pF

330oF

1.5nF

180pF

220pF

220pF

220pF

220pF

220pF

220pF

22nF

100nF

100nF

100pF

22nF

100nF

22pF

56pF

100nF

100nF

100pF

100nF

330nF

100nF

100pF

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100pF

82nF

1nF 10%

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For details and exploded view see Service Manual of tape transport RN/RR, RDN/RDR General Documentation 4822 725 23763

# Service Manual

### (GB) MAINTENANCE

It is recommended to clean the recorder after approx. 500 hours of operation.

To be cleaned with alcohol or spirit

- Erase head
- Recording/playback head
- Capstan
- Pressure roller

### (F) ENTRETIEN

L'appareil devra être nettoyé après env. 500 heures de marche aux points les plus importants.

Nettoyer les éléments suivants à l'alcool ou à l'alcool à brûler:

- Tête effacement
- Tête enregistrement/reproduction
- Cabestan
- Galet presseur

### (NL) ONDERHOUD

Aanbevolen wordt het apparaat na ca. 500 bedrijfsuren schoon te maken

Schoonmaken met alcohol of spiritus:

- Wiskop
- Opneem-/weergeefkop
- Toonas
- Drukrol

### (D) WARTUNG

Es empfiehlt sich, das Gerät nach ca. 500 Betriebsstunden zu reinigen

Reinigen mit Alkohol oder Spiritus:

- Löschkopf
- Aufnahme/Wiedergabe-Kopf
- Tonachse
- Andruckrolle

### (I) MANUTENZIONE

E consigliabile pulire l'apparecchio dopo circa 500 ore di funzionamento ai punti principali.

Pulire con alcool

- Testina di cancellazione
- Testina di registrazione/riproduzione
- Capstan
- Rullo preminastro

The security designation of the security designation of the security of the se

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**PHILIPS** 

# STRIPPED VERSION WITHOUT NOTED ITEMS IS CALLED AND HANDLED AS RR 0 PB 4822 691 10294 RN 0 4822 691 10296 Pb Deck rev. Rec/Pb Deck (1032)CHANGE DIRECTION PLAY REWIND WIND = -USE CM [W/ STC= PLAY REWIND

100	4822 691 10294	RR0 Pb assy	General	parts	
106	4822 403 70385	lever, antiselect		bers refer to explor	tod view in
107	4822 529 10254	damper,motor			
108	4822 502 11866	screw,motor	General	Documentation 48	22 /25 23/63
125	4822 691 10296	RN 0 assy			
			7/67	4822 520 10718	bearing plate
111	4822 492 70393	headclip	38/61	4822 520 40134	ball, bearing
121	4822 403 53876	lever, mode select	40	4822 402 10037	lever, pinch re
12E	4822 492 51473	spring.azimuth	41/76	4822 528 70646	pinch roller
		head, reverse	43	4822 404 10853	slide, key lock
1021	4822 249 30156				
1023	4822 361 21718	motor, MSI-5U9LWDR	58	4822 358 30929	drive belt RN
			73	4822 402 10038	lever, pinch re
102-	4822 271 30596	switch, indication play	73 74	4822 535 92992	tapequide rigi
1025	4822 278 90624	switch, indication direction			
1030	4822 249 10397	head, Rec/Pb	75	4822 535 92993	tapeguide left
1032	4822 249 20072	head,erase	98	4822 358 30928	drive belt RN
1034	4822 271 30596	switch, indication play			
100-	1022 27 1 00000	,	402	4822 528 20676	take-up clutc
Only th	nose parts of which	a service code number is			

stated are service parts.

bearing plate ball, bearing lever, pinch roller right pinch roller slide, key lock drive belt RN0 S (long) lever, pinch roller left tapeguide right tapeguide left drive belt RN0 D (short) take-up clutch assy